CALIFORNIA HIGH-SPEED TRAIN

Project Environmental Impact Report/Environmental Impact Statement

FINAL

Merced to Fresno Section
Project EIR/EIS

Volume III:

Section K1 – Roadway and Grade Separation Plans

Hybrid Alternative with Ave 24 Wye



April 2012

CALIFORNIA High-Speed Rail Authority

U.S. Department of Transportation
Federal Railroad Administration

LOCATION NO.	SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	DRAWING TITLE LINE 5	DRAWING TITLE LINE 6
				GENERAL		
		B5190-B	HYBRID	GENERAL	INDEX OF DRAWINGS	SHEET 1 OF 4
		B5191-B	HYBRID	GENERAL	INDEX OF DRAWINGS	SHEET 2 OF 4
		B5192-B	HYBRID	GENERAL	INDEX OF DRAWINGS	SHEET 3 OF 4
		B5193-B	HYBRID	GENERAL	INDEX OF DRAWINGS	SHEET 4 OF 4
		B5195-B	HYBRID	GENERAL	ABBREVIATIONS, SYMBOLS AND NOTES	SHEET 1 OF 1
		B5200-B	HYBRID		INDEX MAP	SHEET 1 OF 2
		B5201-B	HYBRID		INDEX MAP	SHEET 2 OF 2
		CB5200-B	BNSF MAINLINE/WYE DO - (HYBRID)	GRADE SEPARATION - ROAD 10 ALT 1	KEY MAP	SHEET 1 OF 1
		CB5201-B	BNSF MAINLINE/WYE DO - (HYBRID)	GRADE SEPARATION - ROAD 10 ALONG EXIST ALT 2	KEY MAP	SHEET 1 OF 1
		CB5202-B	BNSF MAINLINE/MERCED DO - (HYBRID)	GRADE SEPARATION - ROAD 13	KEY MAP	SHEET 1 OF 1
		CB5203-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 25	KEY MAP	SHEET 1 OF 1
		CB5204-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPRATION - AVENUE 26 ALT 1	KEY MAP	SHEET 1 OF 1
		CB5205-B	UPRR/SR99 MERCED DO - (HYBRID)	GRADE SEPARATION - CROSS ROAD	KEY MAP	SHEET 1 OF 1
		CB5206-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	UNDERPASS - AVENUE 26 ALT 2	KEYMAP	SHEET 1 OF 1
		CT5190-B	HYBRID	GRADE SEPARATIONS	TYPICAL CROSS SECTIONS	SHEET 1 OF 1
		CT5191-B	HYBRID		GENERAL STAGE CONSTRUCTION AND TRAFFIC PLAN	SHEET 1 OF 1
				LAYOUT		
1		CT0001-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 9	LAYOUT	SHEET 1 OF 3
1		CT0002-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 9	LAYOUT	SHEET 2 OF 3
1		CT0003-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 9	LAYOUT	SHEET 3 OF 3
2		CT0004-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 10	LAYOUT	SHEET 1 OF 3
2		CT0005-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 10	LAYOUT	SHEET 2 OF 3
2		CT0006-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 10	LAYOUT	SHEET 3 OF 3
3		CT0007-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 11	LAYOUT	SHEET 1 OF 3
3		CT0008-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 11	LAYOUT	SHEET 2 OF 3
3		CT0009-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 11	LAYOUT	SHEET 3 OF 3
4		CT0010-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 12	LAYOUT	SHEET 1 OF 3
4		CT0011-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 12	LAYOUT	SHEET 2 OF 3
4		CT0012-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 12	LAYOUT	SHEET 3 OF 3
5		CT0013-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 13	LAYOUT	SHEET 1 OF 4
5		CT0014-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 13	LAYOUT	SHEET 2 OF 4
5		CT0015-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 13	LAYOUT	SHEET 3 OF 4
5		CT0016-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 13	LAYOUT	SHEET 4 OF 4
6		CT0017-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 15	LAYOUT	SHEET 1 OF 3
6		CT0018-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 15	LAYOUT	SHEET 2 OF 3
6		CT0019-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 15	LAYOUT	SHEET 3 OF 3
7		CT0020-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 15 1/2	LAYOUT	SHEET 1 OF 3
7		CT0021-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 15 1/2	LAYOUT	SHEET 2 OF 3
7		CT0022-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 15 1/2	LAYOUT	SHEET 3 OF 3
9		CT0026-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 17	LAYOUT	SHEET 1 OF 3
9		CT0027-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 17	LAYOUT	SHEET 2 OF 3
9		CT0028-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 17	LAYOUT	SHEET 3 OF 3
10		CT0029-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 27	LAYOUT	SHEET 1 OF 3
10		CT0030-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 27	LAYOUT	SHEET 2 OF 3
10		CT0031-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 27	LAYOUT	SHEET 3 OF 3
11		CT0032-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 26	LAYOUT	SHEET 1 OF 3
11		CT0033-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 26	LAYOUT	SHEET 2 OF 3
11		CT0034-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 26	LAYOUT	SHEET 3 OF 3
32		CT0113-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 20	LAYOUT	SHEET 1 OF 3
32		CT0114-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 20	LAYOUT	SHEET 2 OF 3
32		CT0115-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 20	LAYOUT	SHEET 3 OF 3
33		CT0116-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 20 1/2	LAYOUT	SHEET 1 OF 3
33		CT0117-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 20 1/2	LAYOUT	SHEET 2 OF 3
33		CT0118-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 20 1/2	LAYOUT	SHEET 3 OF 3
34		CT0119-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 24	LAYOUT	SHEET 1 OF 3
34		CT0120-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 24	LAYOUT	SHEET 2 OF 3
35		CT0121-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 24	LAYOUT	SHEET 3 OF 3
35		CT0122-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 22	LAYOUT	SHEET 1 OF 3
35		CT0123-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 22	LAYOUT	SHEET 2 OF 3
35		CT0124-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 22	LAYOUT	SHEET 3 OF 3
36.1		CT0125.1-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 20	LAYOUT	SHEET 1 OF 3
36.1		CT0126.1-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 20	LAYOUT	SHEET 2 OF 3
36.1		CT0127.1-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 20	LAYOUT	SHEET 3 OF 3
37		CT0128-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 16	LAYOUT	SHEET 1 OF 3
37		CT0129-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 16	LAYOUT	SHEET 2 OF 3
37		CT0130-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 16	LAYOUT	SHEET 3 OF 3
38		CT0131-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 15	LAYOUT	SHEET 1 OF 3
38		CT0132-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 15	LAYOUT	SHEET 2 OF 3
38		CT0133-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 15	LAYOUT	SHEET 3 OF 3
42		CT0143-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 9	LAYOUT	SHEET 1 OF 3

REV	DATE	BY	CHK	APP	DESCRIPTION
2	02/24/12	RG			
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

HYBRID
GENERAL
INDEX OF DRAWINGS
SHEET 1 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. B5190-B
SCALE NONE
SHEET NO. ### OF ###

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LOCATION NO.	SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	DRAWING TITLE LINE 5	DRAWING TITLE LINE 6
42		CT0144-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 9	LAYOUT	SHEET 2 OF 3
42		CT0145-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 9	LAYOUT	SHEET 3 OF 3
65		CT0146-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 7	LAYOUT	SHEET 1 OF 3
65		CT0147-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 7	LAYOUT	SHEET 2 OF 3
65		CT0148-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 7	LAYOUT	SHEET 3 OF 3
64		CT0149-A	BNSF MERCED CONNECTION - (HYBRID)	GRADE SEPARATION - G STREET	LAYOUT	SHEET 1 OF 1
41		CT5200-B	BNSF MAINLINE/ WYE DO - (HYBRID)	GRADE SEPARATION - ROAD 10 ALT 1	LAYOUT	SHEET 1 OF 3
41		CT5201-B	BNSF MAINLINE/ WYE DO - (HYBRID)	GRADE SEPARATION - ROAD 10 ALT 1	LAYOUT	SHEET 2 OF 3
41		CT5202-B	BNSF MAINLINE/ WYE DO - (HYBRID)	GRADE SEPARATION - ROAD 10 ALT 1	LAYOUT	SHEET 3 OF 3
40		CT5203-B	BNSF MAINLINE/ MERCED DO - (HYBRID)	GRADE SEPARATION - ROAD 13	LAYOUT	SHEET 1 OF 5
40		CT5204-B	BNSF MAINLINE/ MERCED DO - (HYBRID)	GRADE SEPARATION - ROAD 13	LAYOUT	SHEET 2 OF 5
40		CT5205-B	BNSF MAINLINE/ MERCED DO - (HYBRID)	GRADE SEPARATION - ROAD 13	LAYOUT	SHEET 3 OF 5
40		CT5206-B	BNSF MAINLINE/ MERCED DO - (HYBRID)	GRADE SEPARATION - ROAD 13	LAYOUT	SHEET 4 OF 5
40		CT5207-B	BNSF MAINLINE/ MERCED DO - (HYBRID)	GRADE SEPARATION - ROAD 13	LAYOUT	SHEET 5 OF 5
27		CT5210-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 25	LAYOUT	SHEET 1 OF 12
27		CT5211-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 25	LAYOUT	SHEET 2 OF 12
27		CT5212-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 25	LAYOUT	SHEET 3 OF 12
27		CT5213-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 25	LAYOUT	SHEET 4 OF 12
27		CT5214-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 25	LAYOUT	SHEET 5 OF 12
27		CT5215-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 25	LAYOUT	SHEET 6 OF 12
27		CT5216-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 25	LAYOUT	SHEET 7 OF 12
27		CT5217-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 25	LAYOUT	SHEET 8 OF 12
27		CT5218-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 25	LAYOUT	SHEET 9 OF 12
27		CT5219-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 25	LAYOUT	SHEET 10 OF 12
27		CT5220-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 25	LAYOUT	SHEET 11 OF 12
27		CT5221-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 25	LAYOUT	SHEET 12 OF 12
26		CT5227-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 26 ALT 1	LAYOUT	SHEET 1 OF 10
26		CT5228-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 26 ALT 1	LAYOUT	SHEET 2 OF 10
26		CT5229-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 26 ALT 1	LAYOUT	SHEET 3 OF 10
26		CT5230-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 26 ALT 1	LAYOUT	SHEET 4 OF 10
26		CT5231-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 26 ALT 1	LAYOUT	SHEET 5 OF 10
26		CT5232-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 26 ALT 1	LAYOUT	SHEET 6 OF 10
26		CT5233-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 26 ALT 1	LAYOUT	SHEET 7 OF 10
26		CT5234-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 26 ALT 1	LAYOUT	SHEET 8 OF 10
26		CT5235-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 26 ALT 1	LAYOUT	SHEET 9 OF 10
26		CT5236-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 26 ALT 1	LAYOUT	SHEET 10 OF 10
25		CT5238-B	UPRR/SR99 MERCED DO - (HYBRID)	GRADE SEPARATION - CROSS ROAD	LAYOUT	SHEET 1 OF 3
25		CT5239-B	UPRR/SR99 MERCED DO - (HYBRID)	GRADE SEPARATION - CROSS ROAD	LAYOUT	SHEET 2 OF 3
25		CT5240-B	UPRR/SR99 MERCED DO - (HYBRID)	GRADE SEPARATION - CROSS ROAD	LAYOUT	SHEET 3 OF 3
26		CT5246-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	UNDERPASS - AVENUE 26 ALT 2	LAYOUT	SHEET 1 OF 3
26		CT5247-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	UNDERPASS - AVENUE 26 ALT 2	LAYOUT	SHEET 2 OF 3
26		CT5248-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	UNDERPASS - AVENUE 26 ALT 2	LAYOUT	SHEET 3 OF 3
41		CT5249-B	BNSF MAINLINE/ WYE DO - (HYBRID)	GRADE SEPARATION - ROAD 10 ALONG EXIST ALT 2	LAYOUT	SHEET 1 OF 3
41		CT5250-B	BNSF MAINLINE/ WYE DO - (HYBRID)	GRADE SEPARATION - ROAD 10 ALONG EXIST ALT 2	LAYOUT	SHEET 2 OF 3
41		CT5251-B	BNSF MAINLINE/ WYE DO - (HYBRID)	GRADE SEPARATION - ROAD 10 ALONG EXIST ALT 2	LAYOUT	SHEET 3 OF 3
				PROFILE		
		CT5900-B	UPRR/SR99 - (HYBRID)	GRADE SEPARATION	SUPERELEVATION TEMPLATE	SHEET 1 OF 4
		CT5901-B	UPRR/SR99 - (HYBRID)	GRADE SEPARATION	SUPERELEVATION TEMPLATE	SHEET 2 OF 4
		CT5902-B	UPRR/SR99 - (HYBRID)	GRADE SEPARATION	SUPERELEVATION TEMPLATE	SHEET 3 OF 4
		CT5903-B	UPRR/SR99 - (HYBRID)	GRADE SEPARATION	SUPERELEVATION TEMPLATE	SHEET 4 OF 4
1		CT1000-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 9	PROFILE	SHEET 1 OF 3
1		CT1001-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 9	PROFILE	SHEET 2 OF 3
1		CT1002-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 9	PROFILE	SHEET 3 OF 3
2		CT1003-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 10	PROFILE	SHEET 1 OF 3
2		CT1004-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 10	PROFILE	SHEET 2 OF 3
2		CT1005-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 10	PROFILE	SHEET 3 OF 3
3		CT1006-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 11	PROFILE	SHEET 1 OF 3
3		CT1007-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 11	PROFILE	SHEET 2 OF 3
3		CT1008-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 11	PROFILE	SHEET 3 OF 3
4		CT1009-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 12	PROFILE	SHEET 1 OF 3
4		CT1010-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 12	PROFILE	SHEET 2 OF 3
4		CT1011-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 12	PROFILE	SHEET 3 OF 3
5		CT1012-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 13	PROFILE	SHEET 1 OF 3
5		CT1013-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 13	PROFILE	SHEET 2 OF 3
5		CT1014-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 13	PROFILE	SHEET 3 OF 3
6		CT1015-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 15	PROFILE	SHEET 1 OF 3
6		CT1016-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 15	PROFILE	SHEET 2 OF 3
6		CT1017-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 15	PROFILE	SHEET 3 OF 3
7		CT1018-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 15 1/2	PROFILE	SHEET 1 OF 3
7		CT1019-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 15 1/2	PROFILE	SHEET 2 OF 3
7		CT1020-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 15 1/2	PROFILE	SHEET 3 OF 3

REV	DATE	BY	CHK	APP	DESCRIPTION
2	02/24/12	RG			
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

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Sacramento, CA 95811

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

HYBRID
GENERAL
INDEX OF DRAWINGS
SHEET 2 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. B5191-B
SCALE NONE
SHEET NO. ### OF ###

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LOCATION NO.	SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	DRAWING TITLE LINE 5	DRAWING TITLE LINE 6
9		CT1024-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 17	PROFILE	SHEET 1 OF 3
9		CT1025-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 17	PROFILE	SHEET 2 OF 3
9		CT1026-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 17	PROFILE	SHEET 3 OF 3
10		CT1029-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 27	PROFILE	SHEET 1 OF 3
10		CT1030-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 27	PROFILE	SHEET 2 OF 3
10		CT1031-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 27	PROFILE	SHEET 3 OF 3
11		CT1032-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 26	PROFILE	SHEET 1 OF 3
11		CT1033-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 26	PROFILE	SHEET 2 OF 3
11		CT1034-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 26	PROFILE	SHEET 3 OF 3
32		CT1113-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 20	PROFILE	SHEET 1 OF 3
32		CT1114-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 20	PROFILE	SHEET 2 OF 3
32		CT1115-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 20	PROFILE	SHEET 3 OF 3
33		CT1116-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 20 1/2	PROFILE	SHEET 1 OF 3
33		CT1117-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 20 1/2	PROFILE	SHEET 2 OF 3
33		CT1118-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 20 1/2	PROFILE	SHEET 3 OF 3
34		CT1119-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 24	PROFILE	SHEET 1 OF 3
34		CT1120-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 24	PROFILE	SHEET 2 OF 3
34		CT1121-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 24	PROFILE	SHEET 3 OF 3
35		CT1122-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 22	PROFILE	SHEET 1 OF 3
35		CT1123-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 22	PROFILE	SHEET 2 OF 3
35		CT1124-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 22	PROFILE	SHEET 3 OF 3
36.1		CT1125.1-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 20	PROFILE	SHEET 1 OF 3
36.1		CT1126.1-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 20	PROFILE	SHEET 2 OF 3
36.1		CT1127.1-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 20	PROFILE	SHEET 3 OF 3
37		CT1128-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 16	PROFILE	SHEET 1 OF 3
37		CT1129-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 16	PROFILE	SHEET 2 OF 3
37		CT1130-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 16	PROFILE	SHEET 3 OF 3
38		CT1131-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 15	PROFILE	SHEET 1 OF 3
38		CT1132-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 15	PROFILE	SHEET 2 OF 3
38		CT1133-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 15	PROFILE	SHEET 3 OF 3
42		CT1143-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 9	PROFILE	SHEET 1 OF 3
42		CT1144-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 9	PROFILE	SHEET 2 OF 3
42		CT1145-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - ROAD 9	PROFILE	SHEET 3 OF 3
65		CT1146-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 7	PROFILE	SHEET 1 OF 3
65		CT1147-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 7	PROFILE	SHEET 2 OF 3
65		CT1148-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 7	PROFILE	SHEET 3 OF 3
64		CT1149-A	BNSF MERCED CONNECTION - (HYBRID)	GRADE SEPARATION - G ST	PROFILE	SHEET 1 OF 1
41		CT6200-B	BNSF MAINLINE/ WYE DO - (HYBRID)	GRADE SEPARATION - ROAD 10 ALT 1	PROFILE	SHEET 1 OF 3
41		CT6201-B	BNSF MAINLINE/ WYE DO - (HYBRID)	GRADE SEPARATION - ROAD 10 ALT 1	PROFILE	SHEET 2 OF 3
41		CT6202-B	BNSF MAINLINE/WYE DO - (HYBRID)	GRADE SEPARATION - ROAD 10 ALT 1	PROFILE	SHEET 3 OF 3
40		CT6203-B	BNSF MAINLINE/MERCED DO - (HYBRID)	GRADE SEPARATION - ROAD 13	PROFILE	SHEET 1 OF 5
40		CT6204-B	BNSF MAINLINE/MERCED DO - (HYBRID)	GRADE SEPARATION - ROAD 13	PROFILE	SHEET 2 OF 5
40		CT6205-B	BNSF MAINLINE/MERCED DO - (HYBRID)	GRADE SEPARATION - ROAD 13	PROFILE	SHEET 3 OF 5
40		CT6206-B	BNSF MAINLINE/MERCED DO - (HYBRID)	GRADE SEPARATION - ROAD 13	PROFILE	SHEET 4 OF 5
40		CT6207-B	BNSF MAINLINE/MERCED DO - (HYBRID)	GRADE SEPARATION - ROAD 13	PROFILE	SHEET 5 OF 5
27		CT6210-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 25	PROFILE	SHEET 1 OF 13
27		CT6211-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 25	PROFILE	SHEET 2 OF 13
27		CT6212-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 25	PROFILE	SHEET 3 OF 13
27		CT6213-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 25	PROFILE	SHEET 4 OF 13
27		CT6214-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 25	PROFILE	SHEET 5 OF 13
27		CT6215-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 25	PROFILE	SHEET 6 OF 13
27		CT6216-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 25	PROFILE	SHEET 7 OF 13
27		CT6217-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 25	PROFILE	SHEET 8 OF 13
27		CT6218-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 25	PROFILE	SHEET 9 OF 13
27		CT6219-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 25	PROFILE	SHEET 10 OF 13
27		CT6220-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 25	PROFILE	SHEET 11 OF 13
27		CT6221-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 25	PROFILE	SHEET 12 OF 13
27		CT6222-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 25	PROFILE	SHEET 13 OF 13
26		CT6226-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 26 ALT 1	PROFILE	SHEET 1 OF 10
26		CT6227-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 26 ALT 1	PROFILE	SHEET 2 OF 10
26		CT6228-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 26 ALT 1	PROFILE	SHEET 3 OF 10
26		CT6229-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 26 ALT 1	PROFILE	SHEET 4 OF 10
26		CT6230-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 26 ALT 1	PROFILE	SHEET 5 OF 10
26		CT6231-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 26 ALT 1	PROFILE	SHEET 6 OF 10
26		CT6232-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 26 ALT 1	PROFILE	SHEET 7 OF 10
26		CT6233-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 26 ALT 1	PROFILE	SHEET 8 OF 10
26		CT6234-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 26 ALT 1	PROFILE	SHEET 9 OF 10
26		CT6235-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	GRADE SEPARATION - AVENUE 26 ALT 1	PROFILE	SHEET 10 OF 10

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REV	DATE	BY	CHK	APP	DESCRIPTION
2	02/24/12	RG			
1	12/28/11	RG			

DESIGNED BY D. AYELE
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CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 07/27/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

HYBRID
GENERAL
INDEX OF DRAWINGS
SHEET 3 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. B5192-B
SCALE NONE
SHEET NO. ### OF ###

LOCATION NO.	SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	DRAWING TITLE LINE 5	DRAWING TITLE LINE 6
25		CT6236-B	UPRR/SR99 MERCED DO - (HYBRID)	GRADE SEPARATION - CROSS ROAD	PROFILE	SHEET 1 OF 3
25		CT6237-B	UPRR/SR99 MERCED DO - (HYBRID)	GRADE SEPARATION - CROSS ROAD	PROFILE	SHEET 2 OF 3
25		CT6238-B	UPRR/SR99 MERCED DO - (HYBRID)	GRADE SEPARATION - CROSS ROAD	PROFILE	SHEET 3 OF 3
26		CT6244-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	UNDERPASS - AVENUE 26 ALT 2	PROFILE	SHEET 1 OF 3
26		CT6245-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	UNDERPASS - AVENUE 26 ALT 2	PROFILE	SHEET 2 OF 3
26		CT6246-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	UNDERPASS - AVENUE 26 ALT 2	PROFILE	SHEET 3 OF 3
41		CT6247-B	BNSF MAINLINE/ WYE DO - (HYBRID)	GRADE SEPARATION - ROAD 10 ALONG EXIST ALT 2	PROFILE	SHEET 1 OF 3
41		CT6248-B	BNSF MAINLINE/ WYE DO - (HYBRID)	GRADE SEPARATION - ROAD 10 ALONG EXIST ALT 2	PROFILE	SHEET 2 OF 3
41		CT6249-B	BNSF MAINLINE/WYE DO - (HYBRID)	GRADE SEPARATION - ROAD 10 ALONG EXIST ALT 2	PROFILE	SHEET 3 OF 3

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

HYBRID
GENERAL
INDEX OF DRAWINGS
SHEET 4 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. B5193-B
SCALE NONE
SHEET NO. ### OF ###

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ABBREVIATIONS

ALIGNMENT

HORIZONTAL

BC	BEGINNING OF CURVE
EC	END OF CURVE
PC	POINT OF CURVE
PCC	POINT OF COMPOUNT CURVES
PI	POINT OF INTERSECTION OF TWO TANGENTS
POB	POINT OF BEGINNING
POC	POINT ON CURVE
POE	POINT OF ENDING
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVES
PT	POINT OF TANGENCY
R	RADIUS OF CURVATURE IN FEET
V, DS	DESIGN VELOCITY IN MILES PER HOUR

VERTICAL

BVC	BEGIN OF VERTICAL CURVE
EVC	END OF VERTICAL CURVE
PVC	POINT OF VERTICAL CURVE (BEGINNING OF CURVE)
PVI	POINT OF VERTICAL INTERSECTION (OF TANGENTS)
PVT	POINT OF VERTICAL TANGENCY (ENDING OF CURVE)
VC	VERTICAL CURVE

MISCELLANEOUS

ALT	ALTERNATIVE
AVE	AVENUE
BB	BEGIN BRIDGE
BEG	BEGIN
BLVD	BOULEVARD
℄	CENTER LINE
CL	CENTERLINE, CLASS
CLR	CLEAR
COL	COLUMN
DWG	DRAWING
EB	END BRIDGE
ELEV	ELEVATION
EQ	EQUATION
ES	EDGE OF SIDEWALK
ETW	EDGE OF TRAVELED WAY
EXIST(E)	EXISTING
FL	FLOW LINE
HORIZ	HORIZONTAL
HP	HINGE POINT
HST	HIGH SPEED TRAIN
HWY	HIGHWAY
IC	INTERCHANGE
IN	INCH
L	LENGTH
LT	LEFT
MBGR	METAL BEAM GUARD RAIL
ML	MAINLINE
MPH	MILES PER HOUR
MAX	MAXIMUM
MIN	MINIMUM
N	NORTH
NB	NORTH BOUND
No, NO	NUMBER
NTS	NOT TO SCALE
OG	ORIGINAL GROUND
O/H OH	OVERHEAD
PG&E	PACIFIC GAS & ELECTRIC
PGL, FG	PROFILE GRADE LINE
RET	RETAINING
RR	RAILROAD
RD	ROAD
R/W	RIGHT OF WAY
RT	RIGHT
SB	SOUTH BOUND
SHLD	SHOULDER
SR	STATE ROUTE
SHT	SHEET
SS	SANITARY SEWER
SSD	STOPPING SIGHT DISTANCE
ST	STREET
STA	STATION
STD	STANDARD
SD	STORM DRAIN
STRUCT, STR	STRUCTURE
T	TANGENT
TEL	TELEPHONE
	(OH) OVERHEAD LINE
	(UG) UNDERGROUND LINE
TOR	TOP OF RAIL
TK	TRACK
TYP	TYPICAL
TBD	TO BE DETERMINED
TF	TELECOMMUNICATIONS FIBER OPTIC
UPRR	UNION PACIFIC RAILROAD
VAR	VARIES
V VERT	VERTICAL
W	WATER, WEST

SYMBOLS

- MATCH LINE
- HST TRACK
- PROPOSED HST RIGHT-OF-WAY
- FREIGHT/PASSENGER TRACK - EXISTING
- EXISTING RIGHT-OF-WAY OR EXISTING BRIDGE FEATURES
- RETAINING WALLS
- ORIGINAL GROUND
- G16 — GAS LINE (16")
- TC — COMMUNICATION LINE
- W — WATER LINE
- FO — FIBER OPTIC LINE
- E — ELECTRICAL LINE
- ELECTRICAL TOWER
- S — SEWER LINE
- SD — STORM DRAIN LINE
- O — FUEL LINE
- TC — TELEPHONE LINE
- P12 — PETROLEUM LINE (12")
- (OH) — OVERHEAD
- NORTH ARRROW
- PVI
- MBGR
- DIRECTION OF TRAVEL
- 250 — PROPOSED CONTOUR

REV	DATE	BY	CHK	APP	DESCRIPTION

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IN CHARGE A. BOONE
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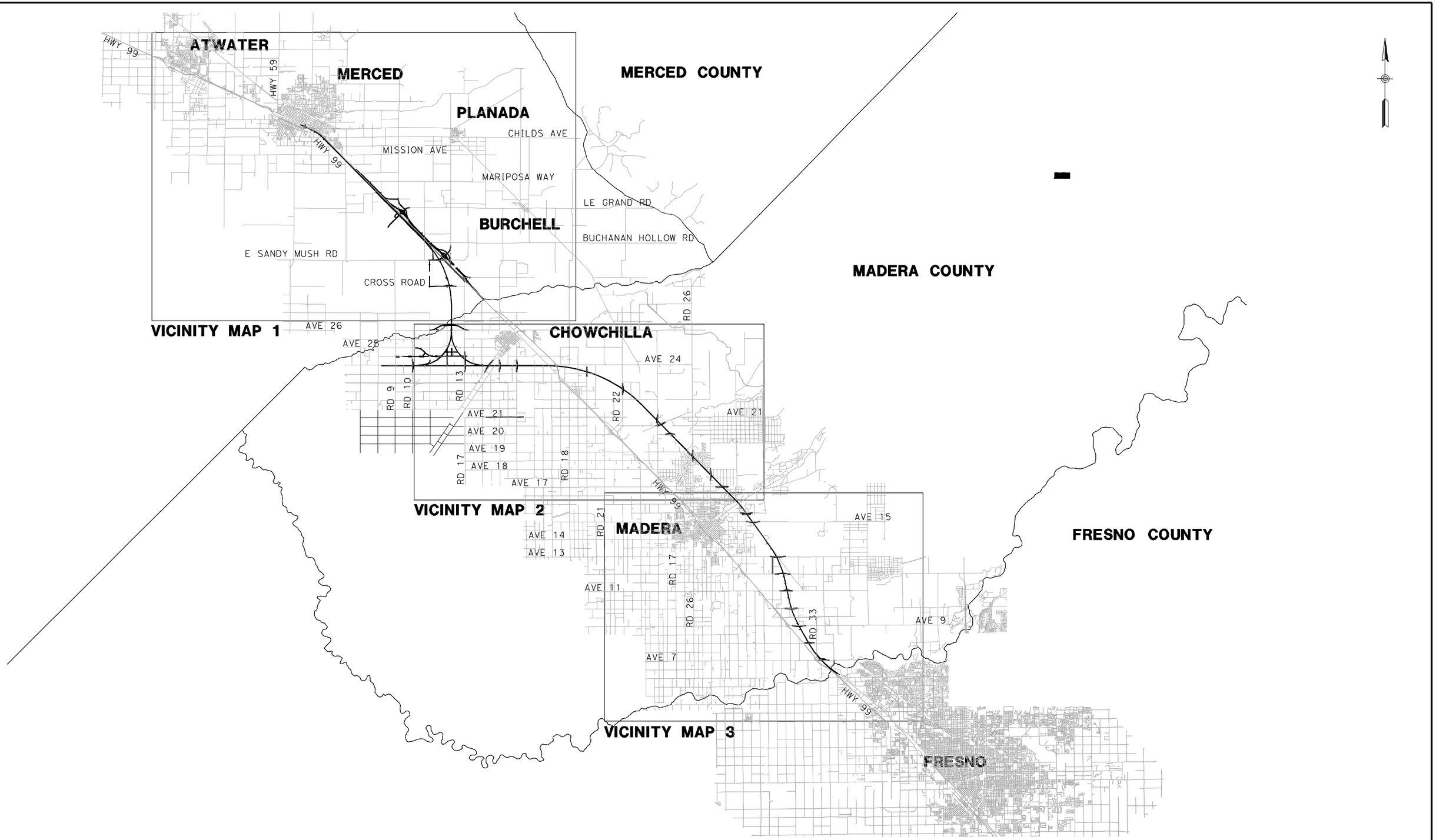
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
HYBRID
GENERAL
ABBREVIATIONS, SYMBOLS AND NOTES
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. B5195-B
SCALE NO SCALE
SHEET NO. ### OF ###

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REV	DATE	BY	CHK	APP	DESCRIPTION
2	02/24/2012	RG			
1	12/28/2011	RG			

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

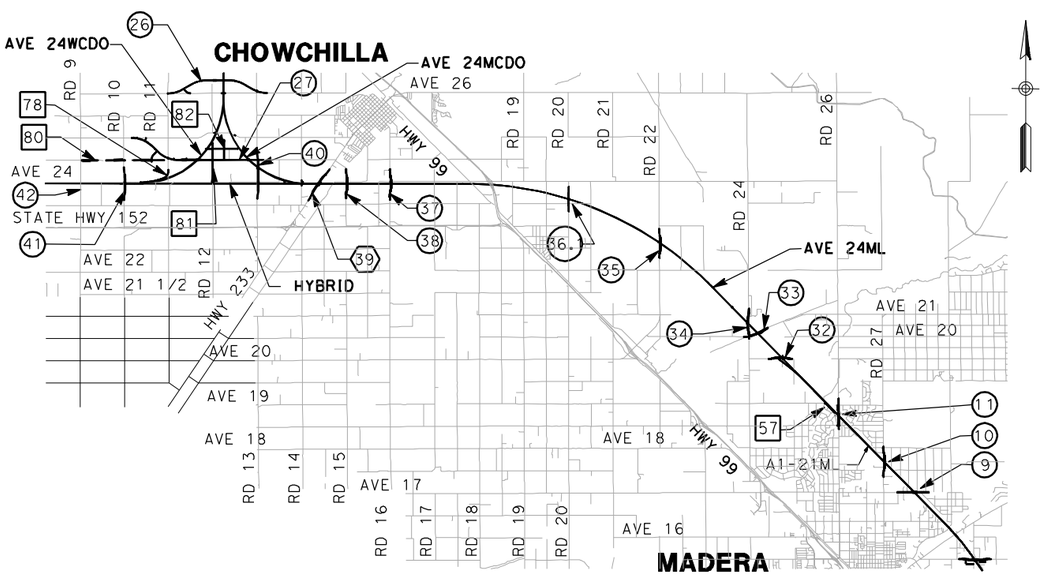
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
HYBRID

INDEX MAP
SHEET 1 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. B5200-B
SCALE NO SCALE
SHEET NO. ### OF ###

LOCATION NO.	SHEET TITLE	ROADWAY DWG NO.	STR DWG NO.
(1)	GRADE SEPARATION - AVENUE 9	CT0001-A - CT0003-A	ST1001
(2)	GRADE SEPARATION - AVENUE 10	CT0004-A - CT0006-A	ST1002
(3)	GRADE SEPARATION - AVENUE 11	CT0007-A - CT0009-A	ST1003
(4)	GRADE SEPARATION - AVENUE 12	CT0010-A - CT0012-A	ST1004
(5)	GRADE SEPARATION - AVENUE 13	CT0013-A - CT0016-A	ST1005
(6)	GRADE SEPARATION - AVENUE 15	CT0017-A - CT0019-A	ST1006
(7)	GRADE SEPARATION - AVENUE 15 1/2	CT0020-A - CT0022-A	ST1007
(9)	GRADE SEPARATION - AVENUE 17	CT0026-A - CT0028-A	ST1009
(10)	GRADE SEPARATION - ROAD 27	CT0029-A - CT0031-A	
(11)	GRADE SEPARATION - ROAD 26	CT0032-A - CT0034-A	
⟨19⟩	GRADE SEPARATION - LE GRAND INTERCHANGE	CT7208-B - CT7214-B	ST1114
(25)	GRADE SEPARATION - CROSS ROAD	CT5238-B - CT5240-B	ST1136
(26)	GRADE SEPARATION - AVENUE 26 ALT 1	CT5227-B - CT5236-B	ST1135
	UNDERPASS - AVENUE 26 ALT 2	CT5246-B - CT5248-B	
(27)	GRADE SEPARATION - AVENUE 25	CT5210-B - CT5221-B	ST1133 - ST1134
(32)	GRADE SEPARATION - AVENUE 20	CT0113-A - CT0115-A	ST1035
(33)	GRADE SEPARATION - AVENUE 20 1/2	CT0116-A - CT0118-A	ST1036 - ST1037
(34)	GRADE SEPARATION - ROAD 24	CT0119-A - CT0121-A	ST1038 - ST1039
(35)	GRADE SEPARATION - ROAD 22	CT0122-A - CT0124-A	ST1040
⟨35.⟩	SANDY MUSH RD INTERCHANGE	CT7204-B - CT7207-B	ST1142
(36.)	GRADE SEPARATION - ROAD 20	CT0125.1-A-CT0127.1-A	ST1041

LOCATION NO.	SHEET TITLE	ROADWAY DWG NO.	STR DWG NO.
(37)	GRADE SEPARATION - ROAD 16	CT0128-A - CT0130-A	ST1042
(38)	GRADE SEPARATION - ROAD 15	CT0131-A - CT0133-A	ST1043
⟨39⟩	GRADE SEPARATION - ROBERTSON BLVD (SR233) ALT 1	CT7200-B - CT7203-B	ST1150
	UNDERPASS - ROBERTSON BLVD (SR233) ALT 2	CT7215-B - CT7217-B	
(40)	GRADE SEPARATION - ROAD 13	CT5203-B - CT5207-B	ST1121 & ST1139
(41)	GRADE SEPARATION - ROAD 10 ALT 1	CT5200-B - CT5202-B	ST1160
	GRADE SEPARATION - ROAD 10 ALONG EXIST ALT 2	CT5249-B - CT5251-B	ST1160
(42)	GRADE SEPARATION - ROAD 9	CT0143-A - CT0145-A	ST1120
(64)	GRADE SEPARATION - G STREET	CT0149-A	ST1180
(65)	GRADE SEPARATION - AVENUE 7	CT0146-A - CT0148-A	
⟨43⟩	CALTRANS - AVENUE 8	CT2000-A - CT2002-A	ST1000
[46]	LOCAL ROAD - ROAD 30 1/2	CR4000-A	
[47]	LOCAL ROAD - ROAD 29	CR4001-A	
[57]	LOCAL ROAD - HANOVER DR	CR4012-A	
[66]	PROPOSED WEST FRONTAGE ROAD	CR9204-B - CR9207-B	
[67]	LOCAL ROAD - ROAD 33	CR4018-A	
[75]	LOCAL ROAD - WEST FRONTAGE ROAD	CR9200-B - CR9201-B	
[76]	LOCAL ROAD - SANDY MUSH ROAD	CR9210-B	
	LOCAL ROAD - WEST FRONTAGE ROAD	CR9202-B - CR9203-B	
[77]	LOCAL ROAD - ROAD 11	CR9208-B - CR9209-B	
	LOCAL ROAD - CROSS ROAD	CR9211-B	
[78]	LOCAL ROAD - AVENUE 24	CR9217-B - CR9218-B	
[80]	LOCAL ROAD - AVENUE 24 1/2	CR9212-B - CR9213-B	
[81]	LOCAL ROAD - ROAD 12	CR9214-B	
[82]	LOCAL ROAD - ROAD 12 1/2 & AVE 24 3/4	CR9215-B	
	LOCAL ROAD - AVENUE 24 3/4	CR9216-B	
[85]	HEALY RD	CR9219-B	
[86]	GERARD AVE/CALTRANS FRONTAGE RD	CR9220-B	



VICINITY MAP 2

VICINITY MAP 3

VICINITY MAP 1

LOCATION NUMBER LEGEND

(X) - INDICATES GRADE SEPARATION

⟨X⟩ - INDICATES CALTRANS FACILITIES MODIFICATION

[X] - INDICATES LOCAL ROAD RELOCATION

FOR ROADWAY STRUCTURES SEE STRUCTURAL INDEX MAPS

9000 0 9000 18000
GRAPHIC SCALE

REV	DATE	BY	CHK	APP	DESCRIPTION
2	02/24/2012	RG			
1	12/28/2011	RG			

DESIGNED BY R. GIBSON
DRAWN BY T. WALTZ
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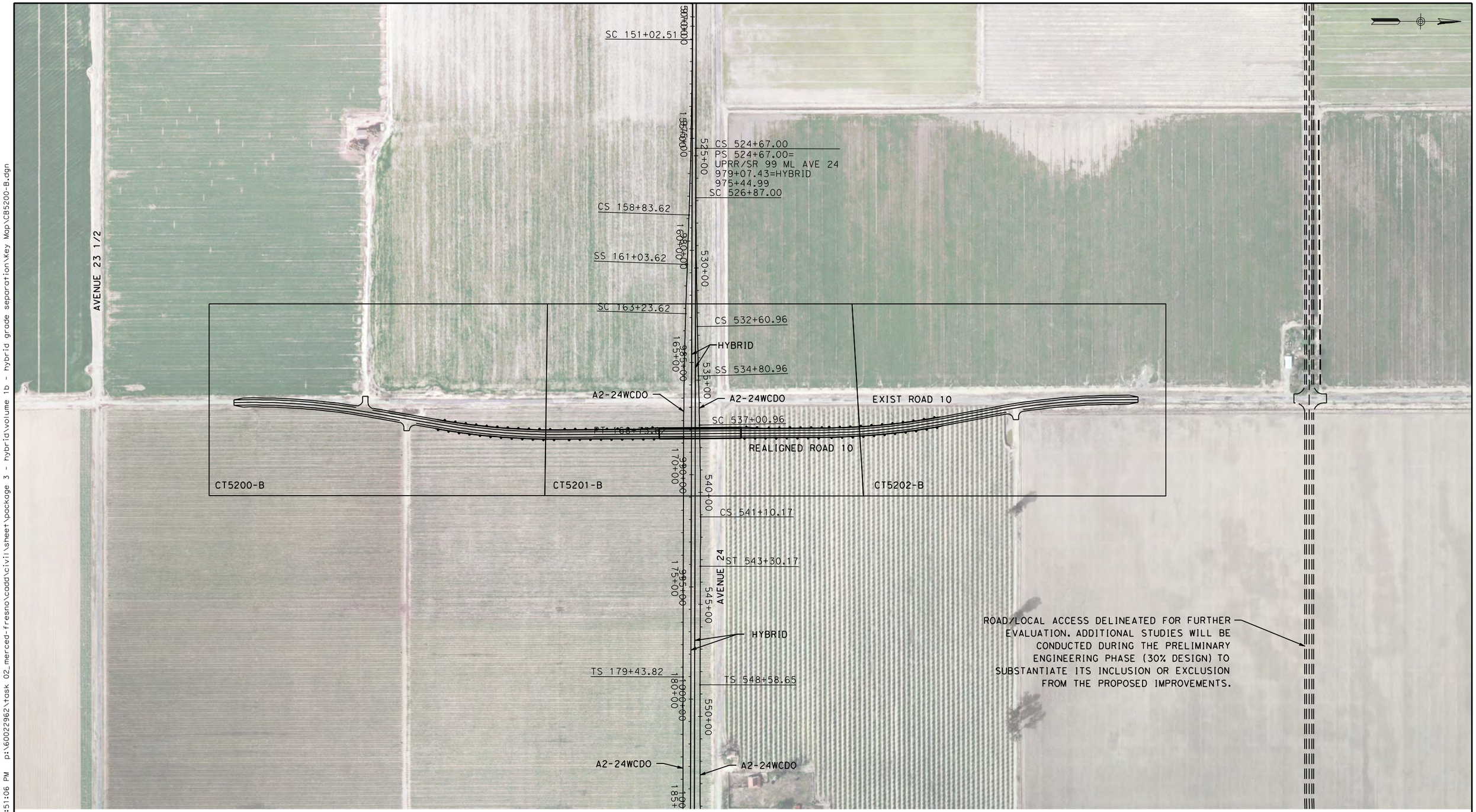
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

HYBRID

INDEX MAP
SHEET 2 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. B5201-B
SCALE NO SCALE
SHEET NO. ### OF ###

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
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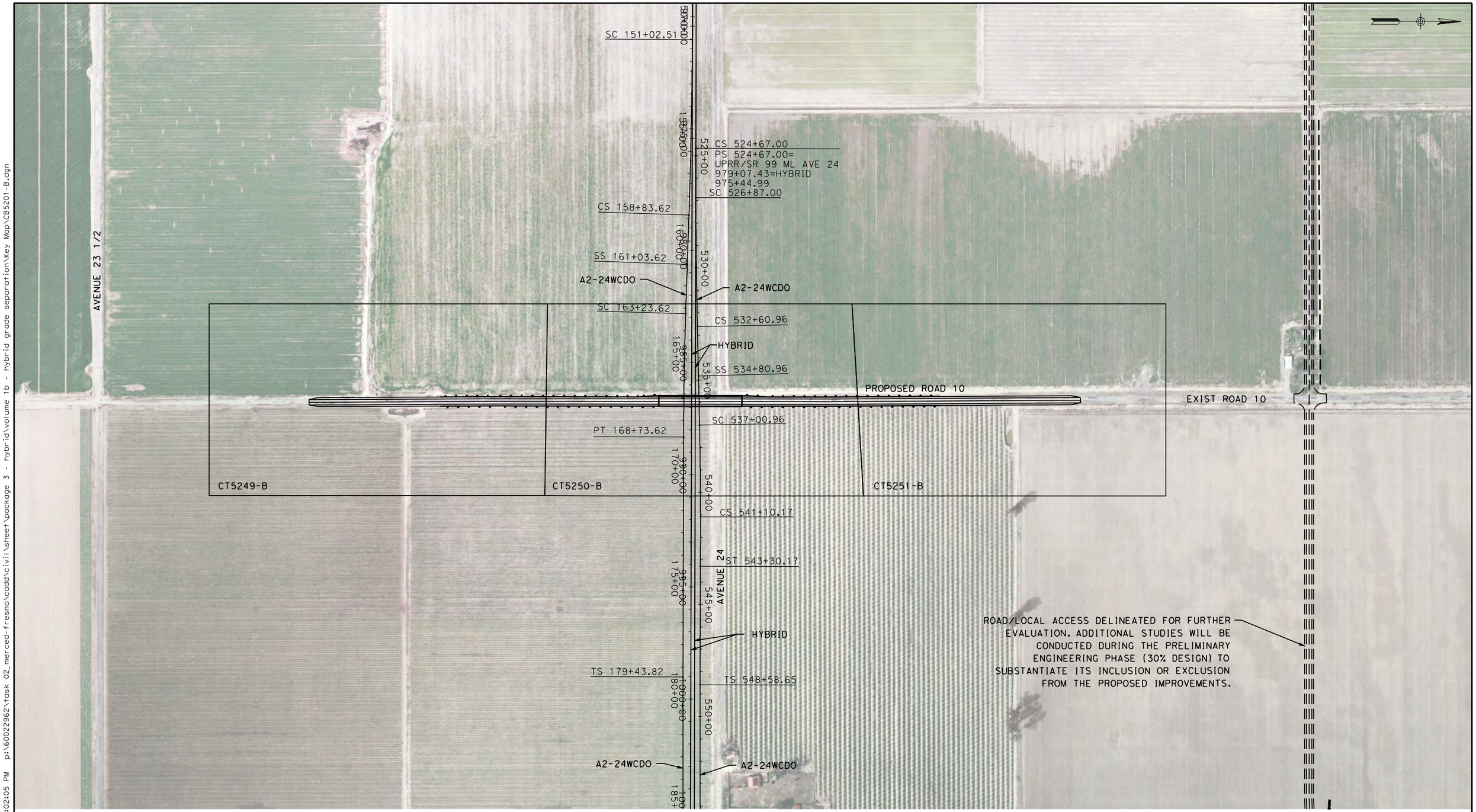
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAINLINE/WYE DO - (HYBRID)
GRADE SEPARATION - ROAD 10 ALT 1
KEY MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CB5200-B
SCALE AS SHOWN
SHEET NO. ### OF ###



REV	DATE	BY	CHK	APP	DESCRIPTION

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BNSF MAINLINE/WYE DO - (HYBRID)
GRADE SEPARATION - ROAD 10 ALONG EXIST ALT 2
KEY MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CB5201-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/28/2011 4:02:05 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 3 - hybrid\volume 1b - hybrid grade separation\Key Map\CB5201-B.dgn ReyesC1



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

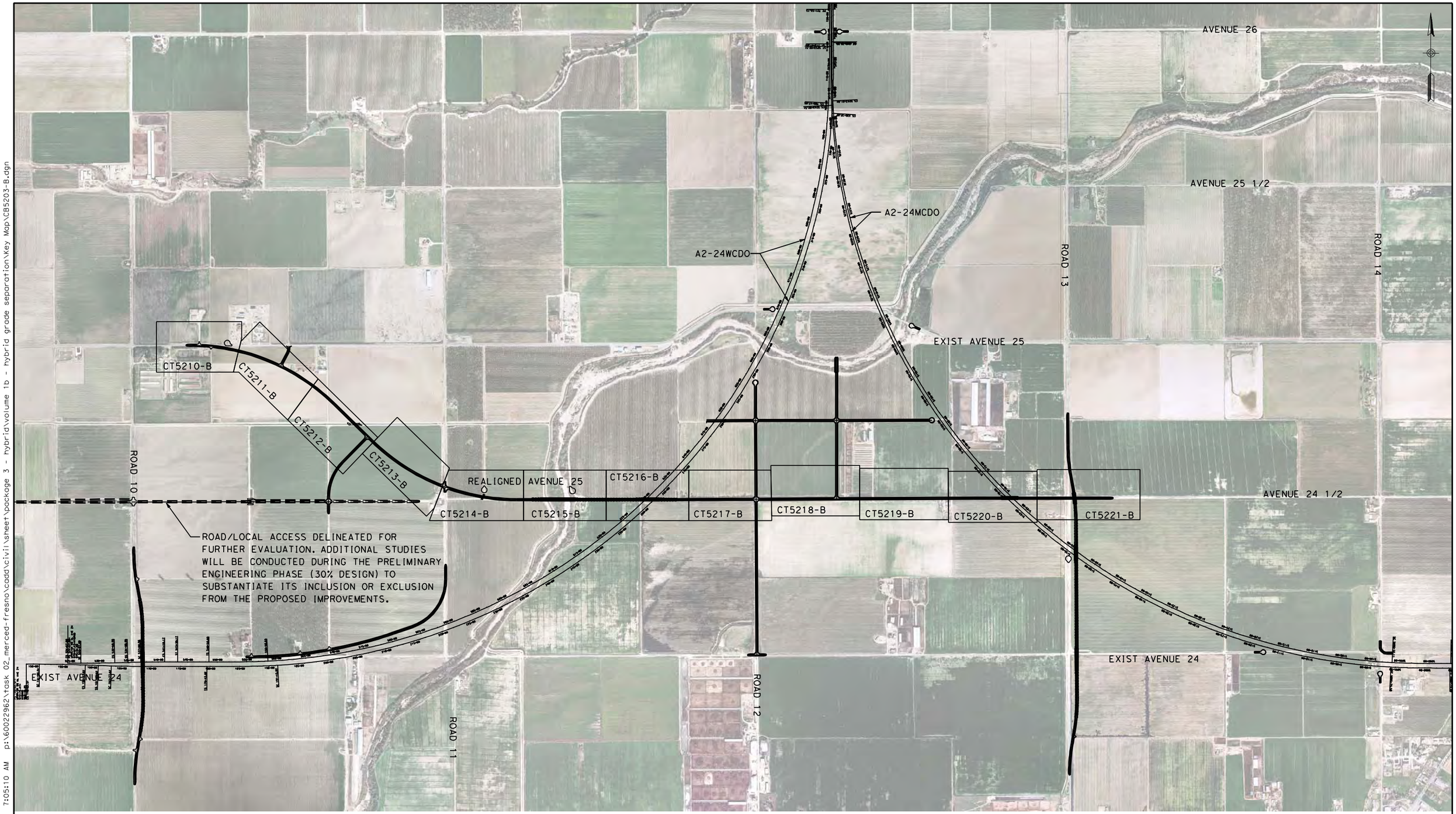
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAINLINE/MERCED DO - (HYBRID)
GRADE SEPARATION - ROAD 13
KEY MAP
SHEET 1 OF 1

CONTRACT NO.: HSR06-007
DRAWING NO.: CB5202-B
SCALE: AS SHOWN
SHEET NO.: ### OF ###

USER=ReyesC1 4/3/2012 2:47:44 PM \\usstc2fp001\projects\60022962\Task-03_Merced-Fresno\cadd\Civil\Design\SANTA CLARA\delosreyesc\15% ROADWAY REVISIONS\VOL III FINAL SUBMITTAL\ROADWAY\SHEET\Package 3



REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

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AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

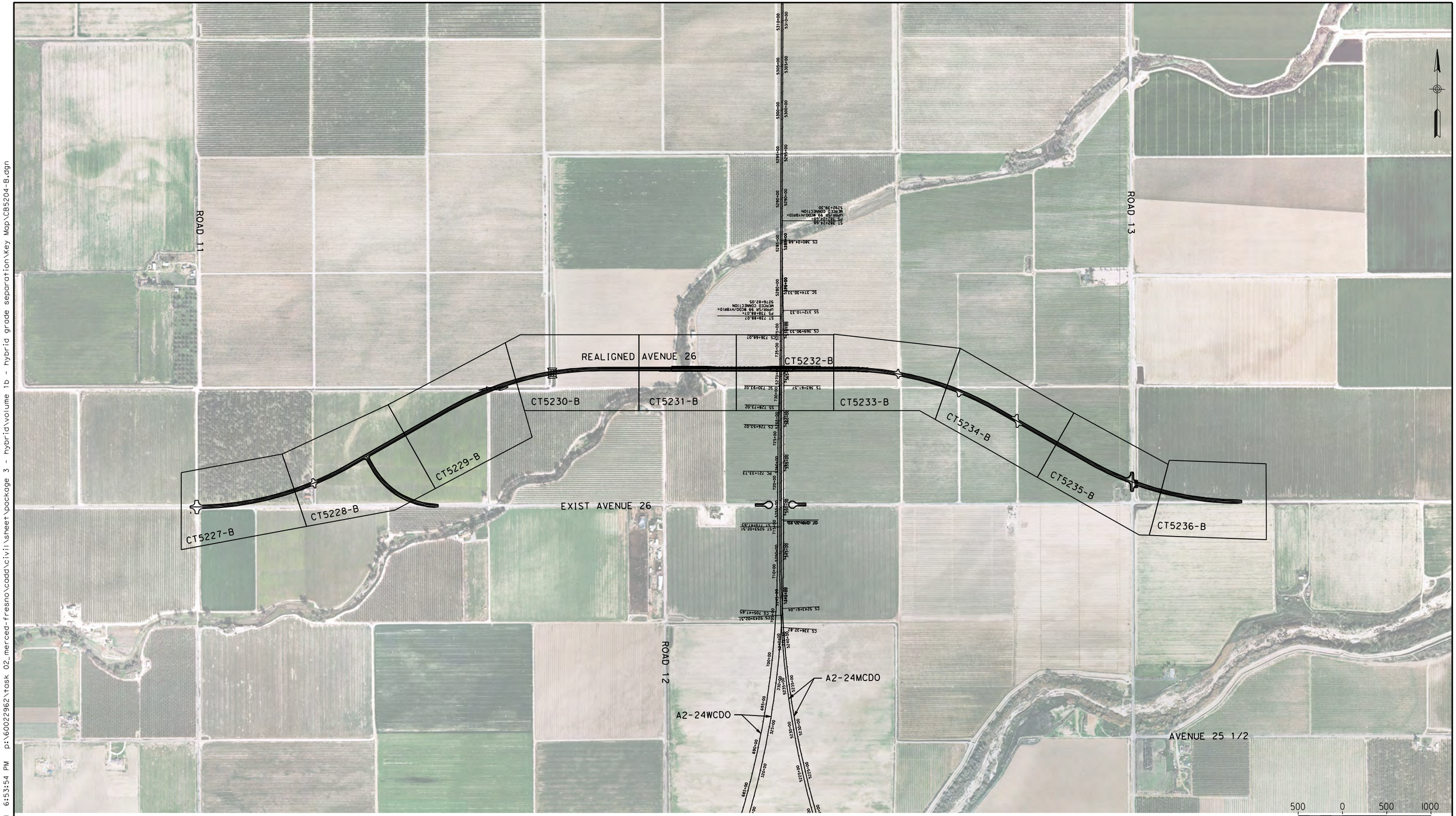
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 25
KEY MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CB5203-B
SCALE NO SCALE
SHEET NO. ### OF ###

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

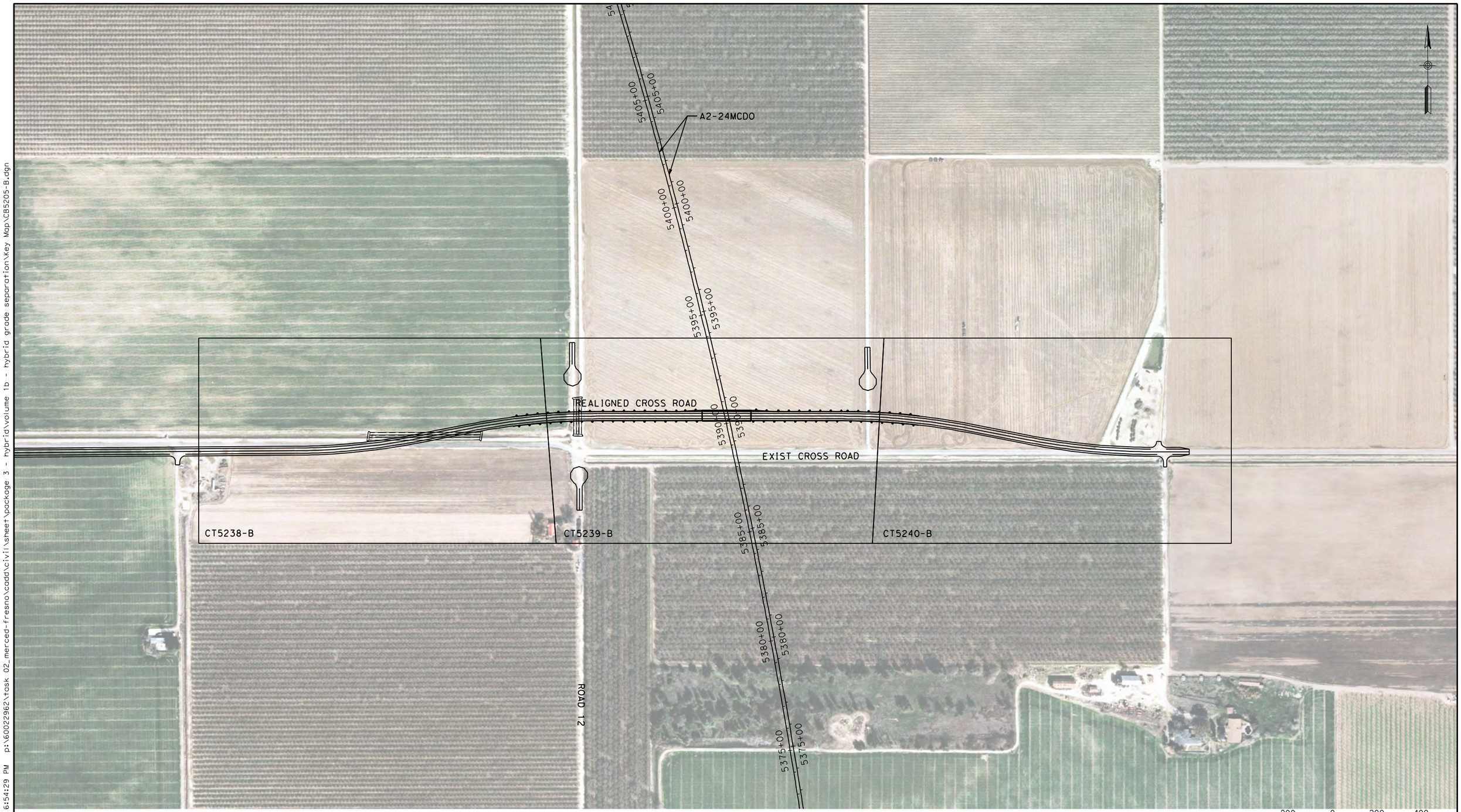
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 26 ALT 1
KEY MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CB5204-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MERCED DO - (HYBRID)
GRADE SEPARATION - CROSS ROAD
KEY MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CB5205-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

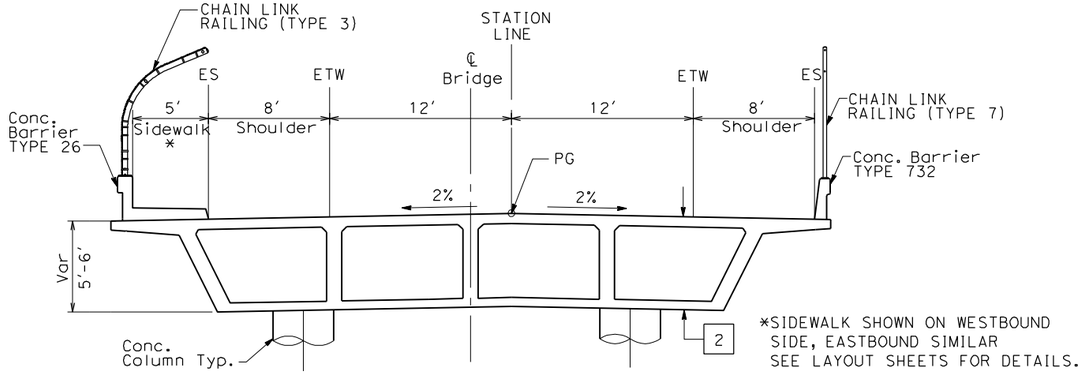
UPRR/SR99 WYE/MERCED DO - (HYBRID)
UNDERPASS - AVENUE 26 ALT 2
KEY MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CB5206-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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NOTES:

1. DIMENSIONS OF EXISTING PAVEMENT WIDTHS ARE BASED ON MEASUREMENTS MADE IN THE FIELD AND ARE APPROXIMATE.
2. PAVEMENT SECTIONS ARE TO BE DETERMINED. GEOTECHNICAL INVESTIGATIONS WILL BE CONDUCTED IN A SUBSEQUENT PHASE TO DETERMINE STRUCTURAL SECTIONS FOR EACH CROSSING.
3. SPACING OF BENCHES ON PROPOSED FILL SECTIONS ARE TO BE DETERMINED.
4. RIGHT-OF-WAY (R/W) WIDTH IS FOR INFORMATION ONLY. EXACT WIDTH TO BE DETERMINED IN COORDINATION WITH AFFECTED AGENCY.



*SIDEWALK SHOWN ON WESTBOUND SIDE, EASTBOUND SIMILAR SEE LAYOUT SHEETS FOR DETAILS.

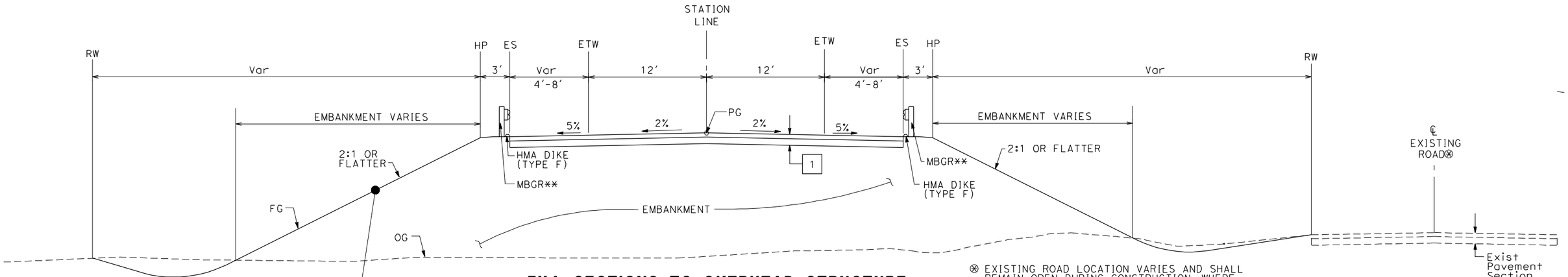
STRUCTURAL SECTIONS:

1 — HMA TYPE A
AB CLASS 2

2 — CAST IN PLACE / PRESTRESSED BOX GIRDER (6′ STRUCTURE DEPTH)

OVERHEAD STRUCTURE

SEE STRUCTURAL PLANS

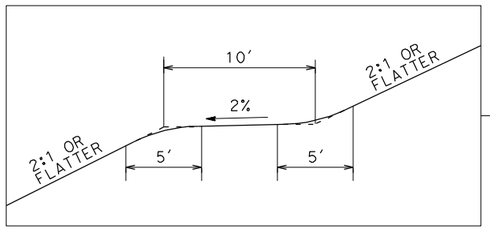


FILL SECTIONS TO OVERHEAD STRUCTURE

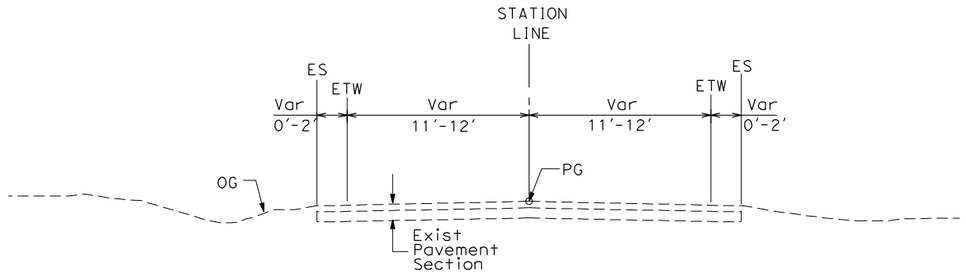
WEST SIDE SHOWN (EAST SIDE SIMILAR)

⊛ EXISTING ROAD LOCATION VARIES AND SHALL REMAIN OPEN DURING CONSTRUCTION. WHERE SHOWN ON THE PLAN CLOSE AND OBLITERATE EXISTING ROADWAY SUBSEQUENT TO CONSTRUCTION OF THE REALIGNED ROADWAY.

** EXACT LIMITS OF MBGR PER AGENCY REQUIREMENTS.



BENCHING DETAIL



EXISTING LOCAL ROAD

WEST SIDE SHOWN (EAST SIDE SIMILAR)
SEE LAYOUT SHEETS FOR ACTUAL ROADWAY WIDTHS AT EACH CROSSING

TYPICAL CROSS SECTIONS ON THIS SHEET APPLY TO THE FOLLOWING ROADWAYS FOR THE HYBRID ALIGNMENT:

NO.	STREET NAME		
1	AVENUE 9	13	AVENUE 26
2	AVENUE 10		
3	AVENUE 11	15	CROSS RD
4	AVENUE 12	16	ROAD 10
5	AVENUE 13	17	ROAD 13
6	AVENUE 15	18	ROAD 15
7	AVENUE 15.5	19	ROAD 16
8	AVENUE 17	20	ROAD 22
9	AVENUE 20	21	ROAD 24
10	AVENUE 20.5	22	ROAD 26
11	AVENUE 23.5	23	ROAD 27
12	AVENUE 25		

REV	DATE	BY	CHK	APP	DESCRIPTION
2	2/24/12	RG			

DESIGNED BY K. OAKS
DRAWN BY K. OAKS
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

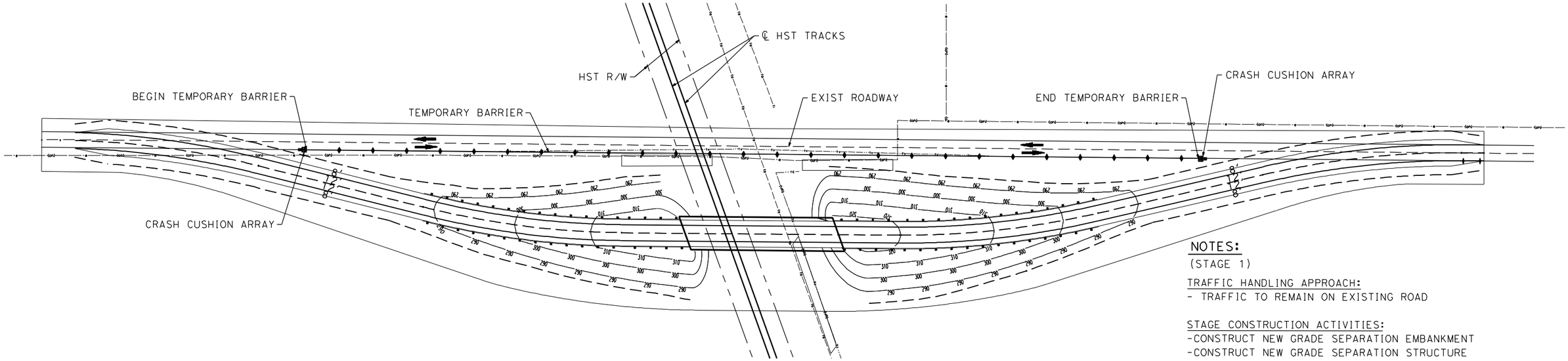
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
HYBRID
GRADE SEPARATIONS
TYPICAL CROSS SECTIONS
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CT5190-B
SCALE NTS
SHEET NO. ### OF ###

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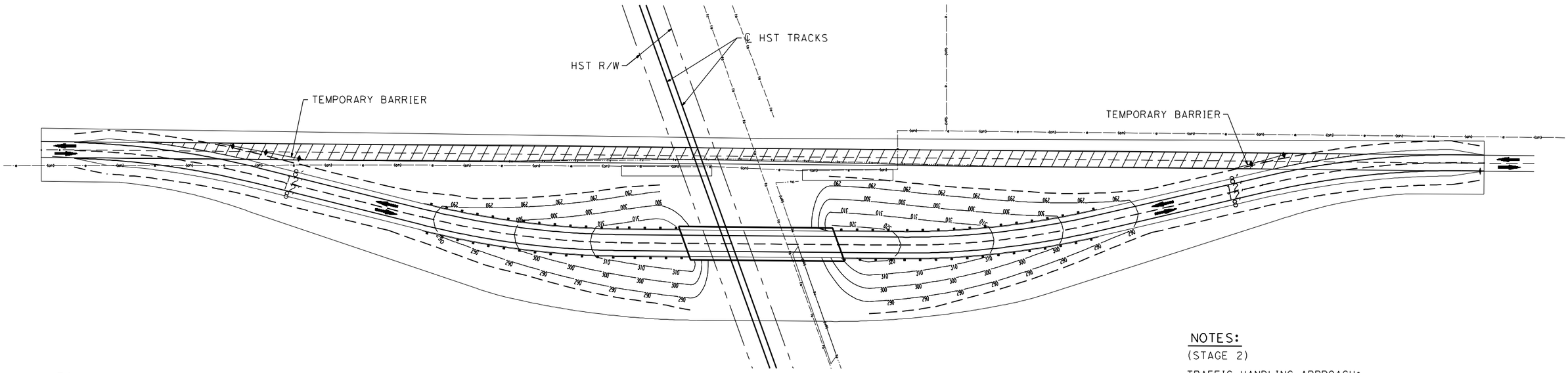


STAGE CONSTRUCTION (STAGE 1)

NOTES:
(STAGE 1)

TRAFFIC HANDLING APPROACH:
- TRAFFIC TO REMAIN ON EXISTING ROAD

STAGE CONSTRUCTION ACTIVITIES:
-CONSTRUCT NEW GRADE SEPARATION EMBANKMENT
-CONSTRUCT NEW GRADE SEPARATION STRUCTURE
-CONSTRUCT DRAINAGE FACILITY



STAGE CONSTRUCTION (STAGE 2)

NOTES:
(STAGE 2)

TRAFFIC HANDLING APPROACH:
- SHIFT TRAFFIC TO NEW GRADE SEPARATION FACILITY

STAGE CONSTRUCTION ACTIVITIES:
-CONSTRUCT REALIGNED ROAD CONFORMS
-COMPLETE DRAINAGE FACILITIES
-REMOVE SURFACE AND BASE OF EXIST ROAD

LEGEND:

- CRASH CUSHION ARRAY (TYPE U11)
- TEMPORARY BARRIER (TYPE K)
- DIRECTION OF TRAVEL
- REMOVE BASE AND SURFACING (EXIST ROAD)

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: S. WONG
DRAWN BY: F. DEMARCO
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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2020 L Street, Suite 300
Sacramento, CA 95811

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
HYBRID

GENERAL STAGE CONSTRUCTION AND TRAFFIC PLAN
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CT5191-B
SCALE NO SCALE
SHEET NO. ### OF ###

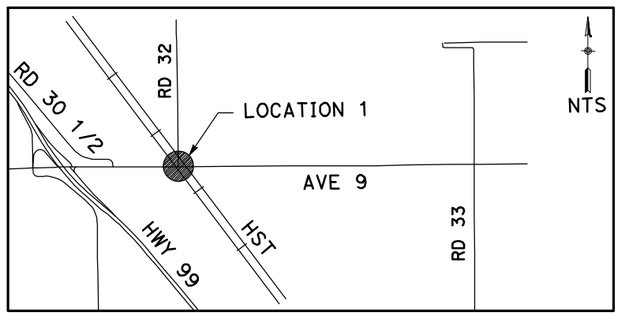
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GibsonR1

CURVE DATA

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②	5000.00′	6°52′32"	300.36′	600.00′	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1000-A THROUGH CT1002-A.

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY J. ZANDIAN
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

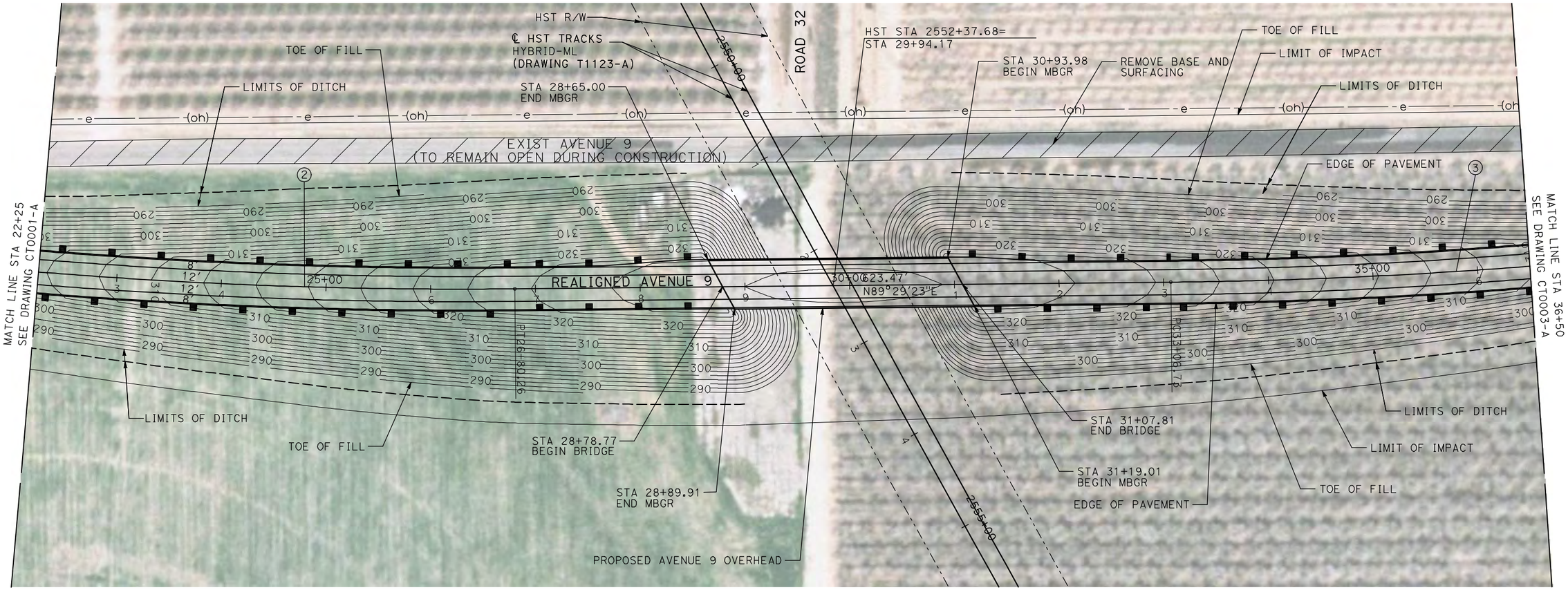
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

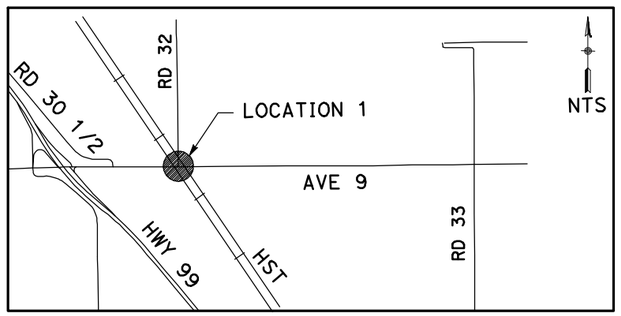
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 9
LAYOUT
SHEET 1 OF 3

CONTRACT NO. HST06-007
DRAWING NO. CT0001-A
SCALE AS SHOWN
SHEET NO. OF ###

CURVE DATA

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③	5000.00'	6°52'32"	300.36'	600.00'	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1000-A THROUGH CT1002-A.

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY J. ZANDIAN
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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Sacramento, CA 95811

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

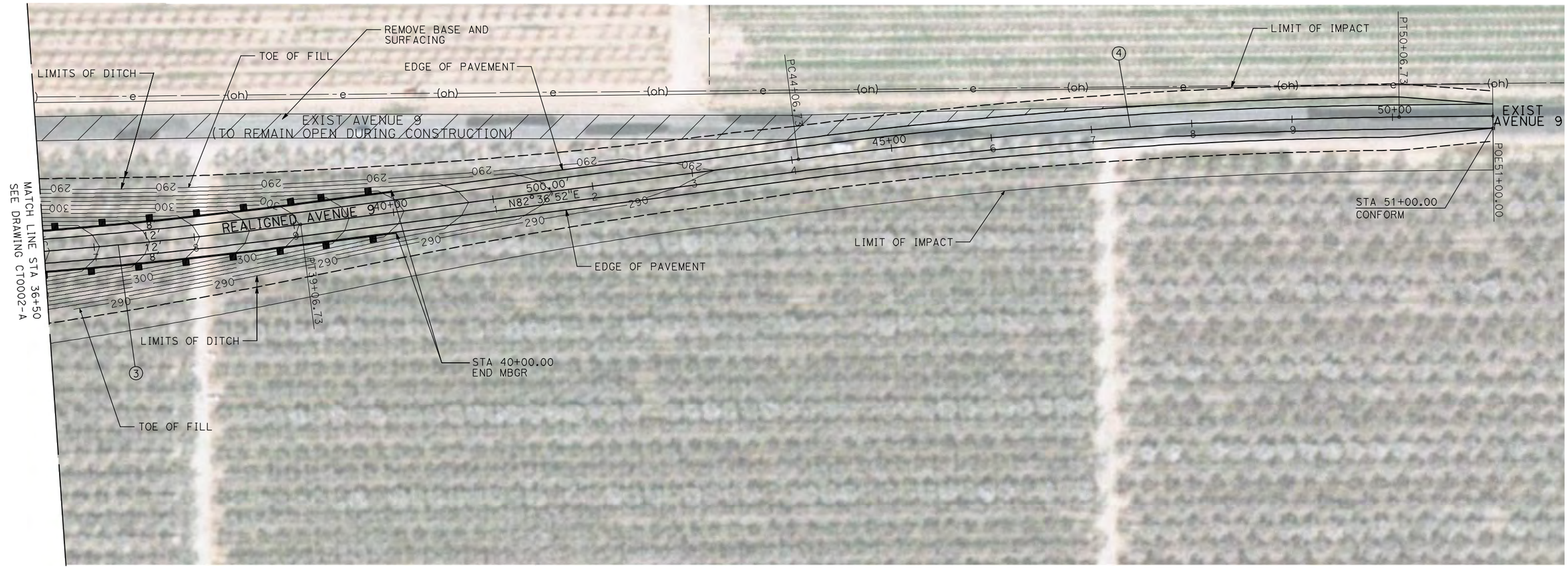
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 9
LAYOUT
SHEET 2 OF 3

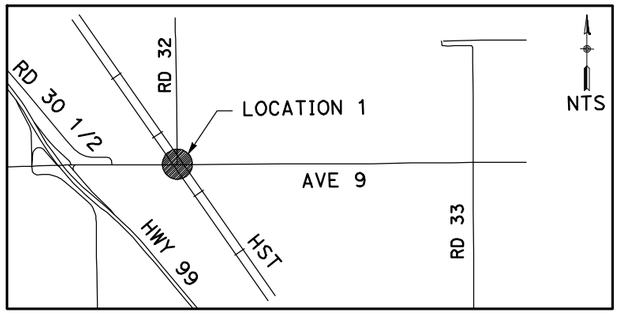
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DRAWING NO. CT0002-A
SCALE AS SHOWN
SHEET NO. OF ###

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GibsonR1

CURVE DATA

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④	5000.00'	6°52'32"	300.36'	600.00'	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1000-A THROUGH CT1002-A.

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY J. ZANDIAN
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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2020 L Street, Suite 300
Sacramento, CA 95811

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 9
LAYOUT
SHEET 3 OF 3

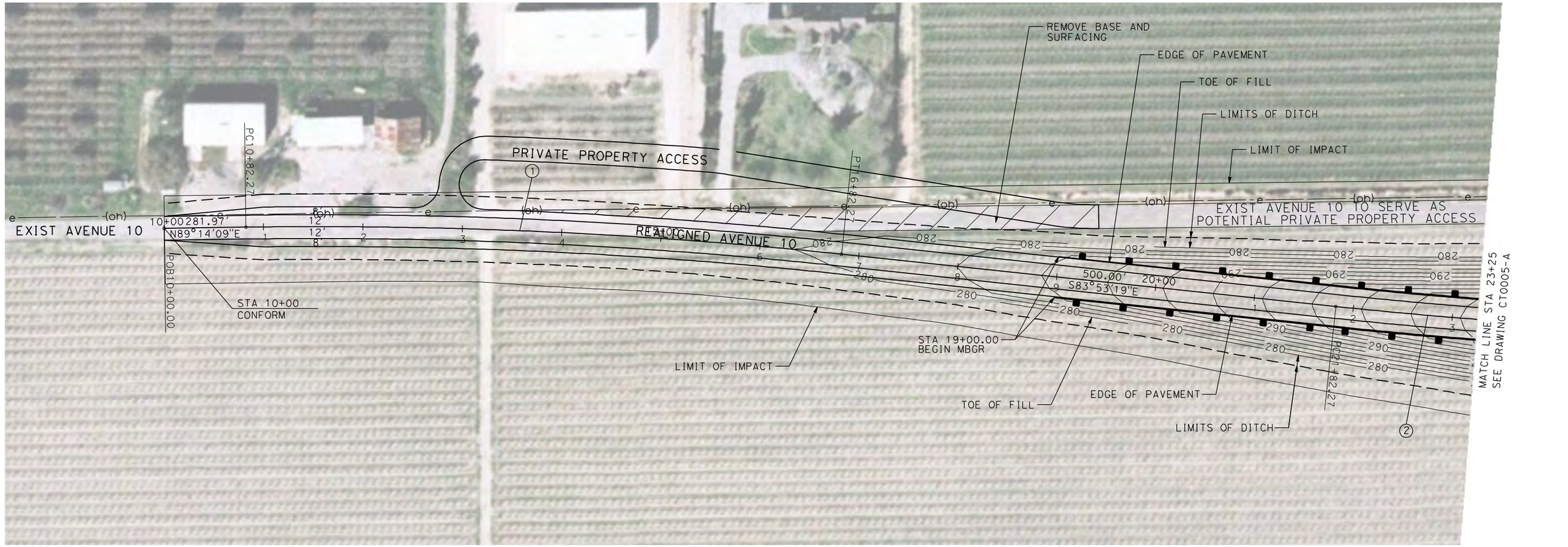
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SCALE AS SHOWN
SHEET NO. OF ###

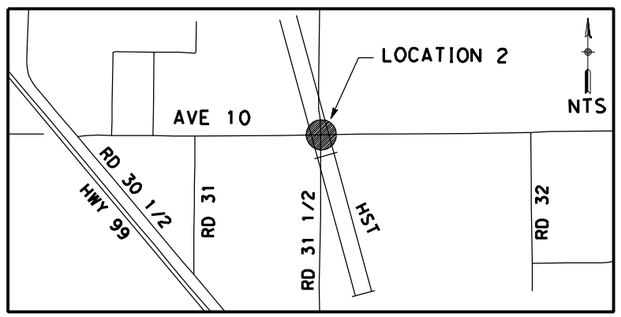
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GibsonR1

CURVE DATA

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①	5000.00'	6°52'32"	300.36'	600.00'	45 MPH
②	5000.00'	6°52'32"	300.36'	600.00'	45 MPH





NOTE:

1. FOR PROFILES, SEE DRAWINGS CT1003-A THROUGH CT1005-A.

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY J. ZANDIAN
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

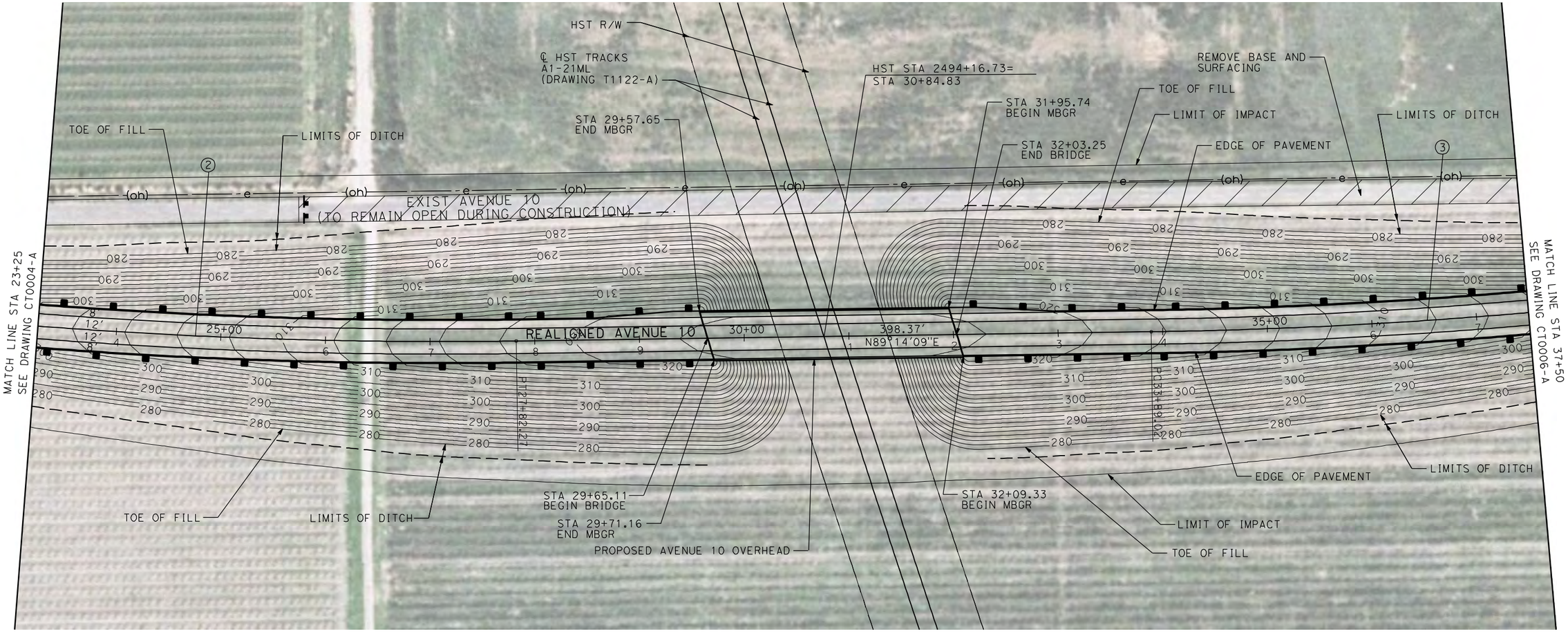
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

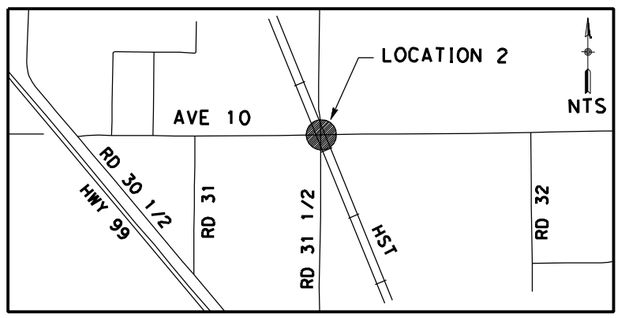
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 10
LAYOUT
SHEET 1 OF 3

CONTRACT NO. HST06-007
DRAWING NO. CT0004-A
SCALE AS SHOWN
SHEET NO. ### OF ###

CURVE DATA					
NO.	R	Δ	T	L	V
②	5000.00′	6°52′32"	300.36′	600.00′	45 MPH
③	5000.00′	6°52′32"	300.36′	600.00′	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1003-A THROUGH CT1005-A.

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY J. ZANDIAN
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

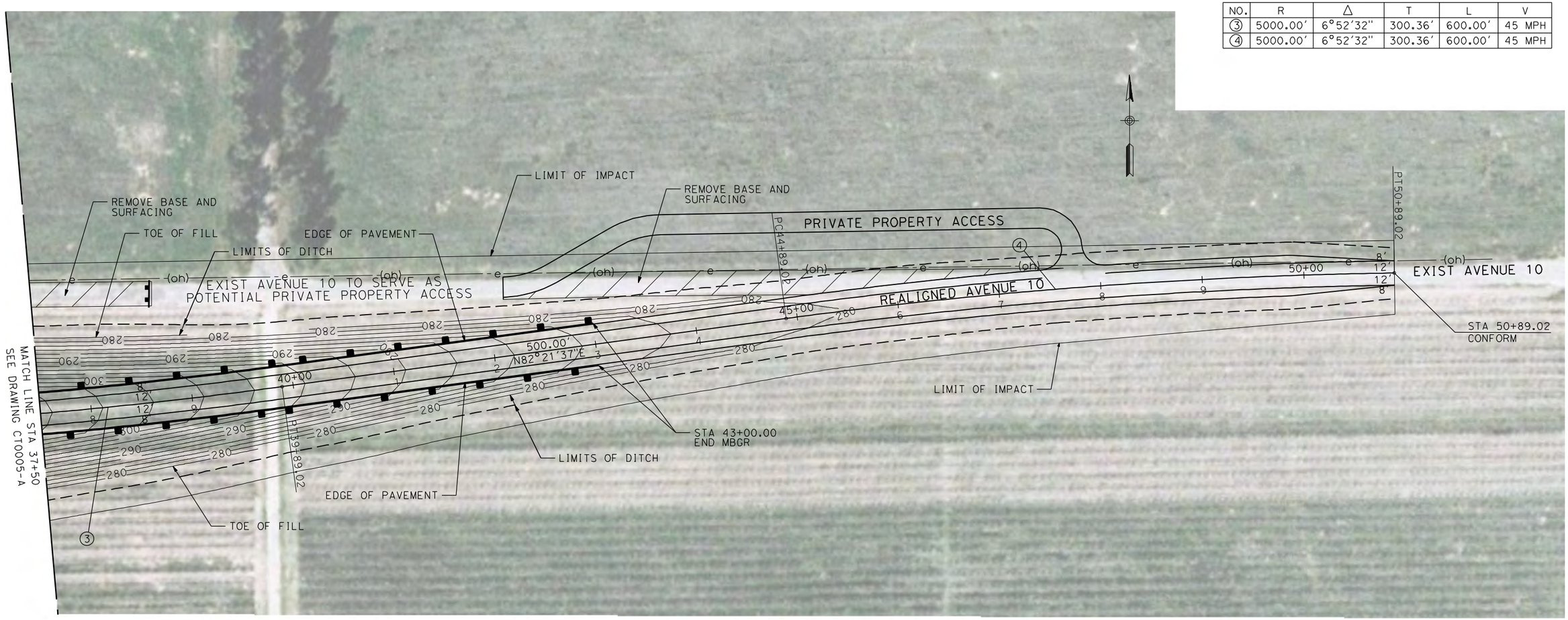
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 10
LAYOUT
SHEET 2 OF 3

CONTRACT NO. HST06-007
DRAWING NO. CT0005-A
SCALE AS SHOWN
SHEET NO. ### OF ###

1/10/2012 3:51:34 PM i:\chsr\60022962\task-03_merced-fresno\cadd\civil\design\gibsonr\rev 1 - 15% plans\cadd\sheet\plans\a1\MF-CT-0005-A_REV1.dgn
GibsonR1

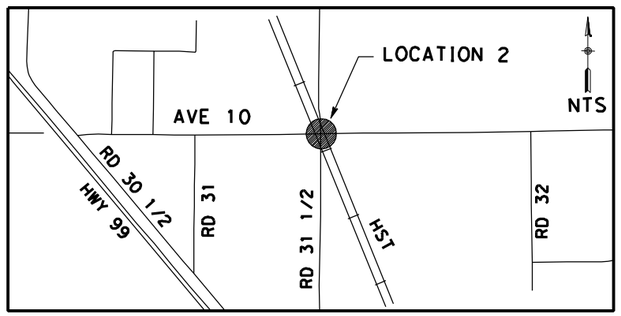
CURVE DATA

NO.	R	Δ	T	L	V
③	5000.00'	6°52'32"	300.36'	600.00'	45 MPH
④	5000.00'	6°52'32"	300.36'	600.00'	45 MPH



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1003-A THROUGH CT1005-A.



50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY J. ZANDIAN
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

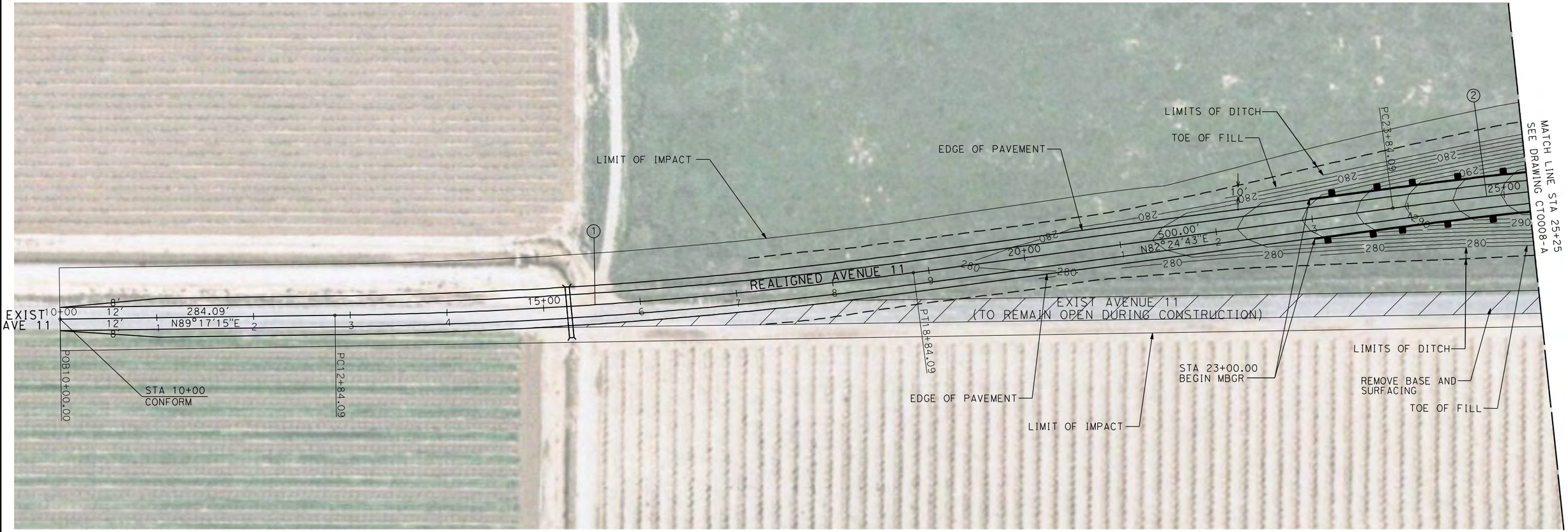
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

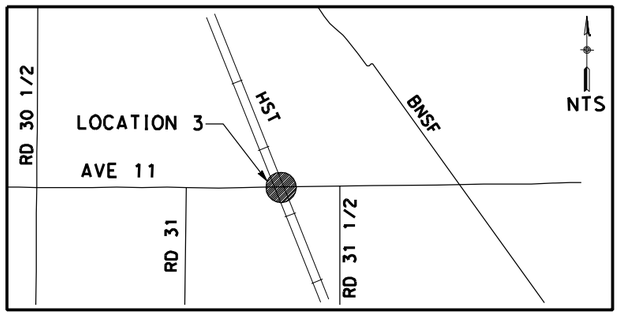
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 10
LAYOUT
SHEET 3 OF 3

CONTRACT NO. HST06-007
DRAWING NO. CT0006-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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GibsonR1

CURVE DATA					
NO.	R	Δ	T	L	V
①	5000.00′	6°52′32"	300.36′	600.00′	45 MPH
②	5000.00′	6°52′32"	300.36′	600.00′	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1006-A THROUGH CT1008-A.

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY J. ZANDIAN
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

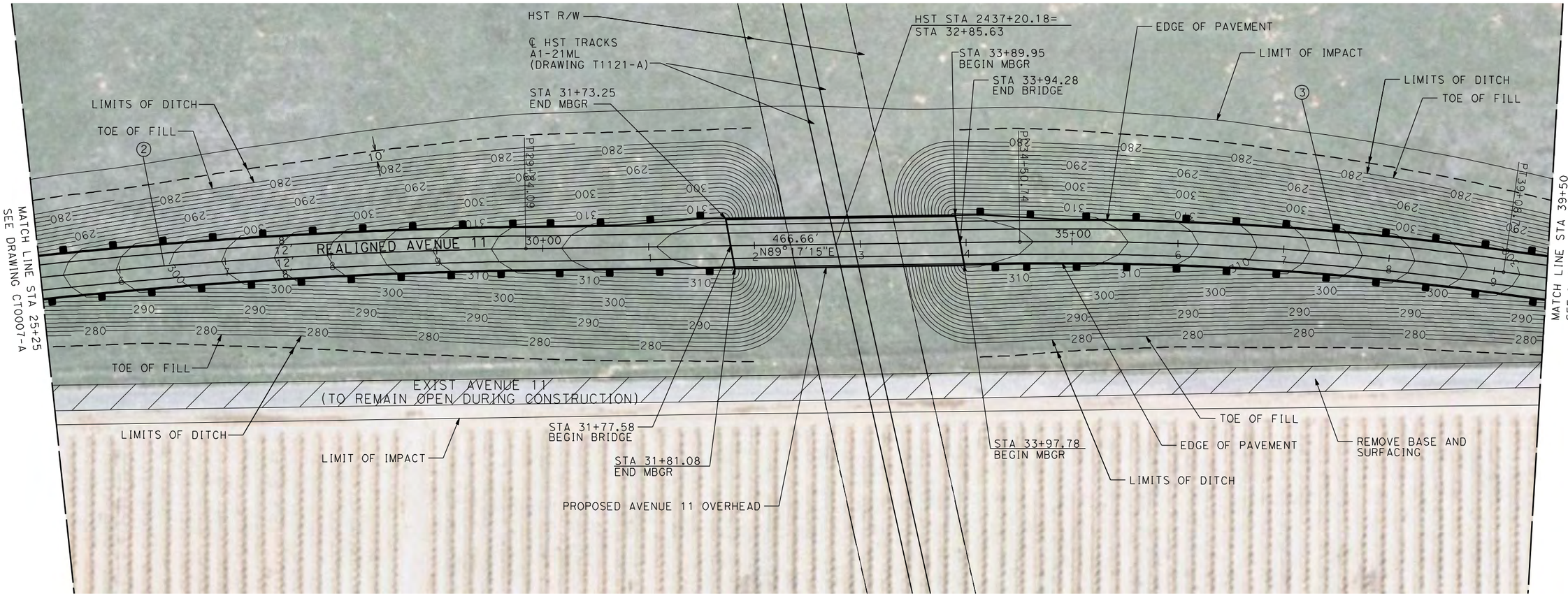
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 11
LAYOUT
SHEET 1 OF 3

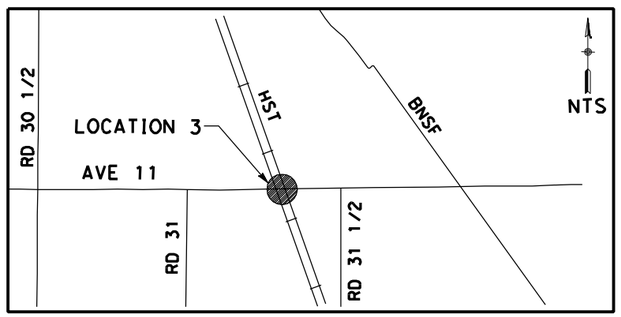
CONTRACT NO. HST06-007
DRAWING NO. CT0007-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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CURVE DATA

NO.	R	Δ	T	L	V
②	5000.00′	6°52′32"	300.36′	600.00′	45 MPH
③	3000.00′	8°44′53"	229.47′	458.05′	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1006-A THROUGH CT1008-A.

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY J. ZANDIAN
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

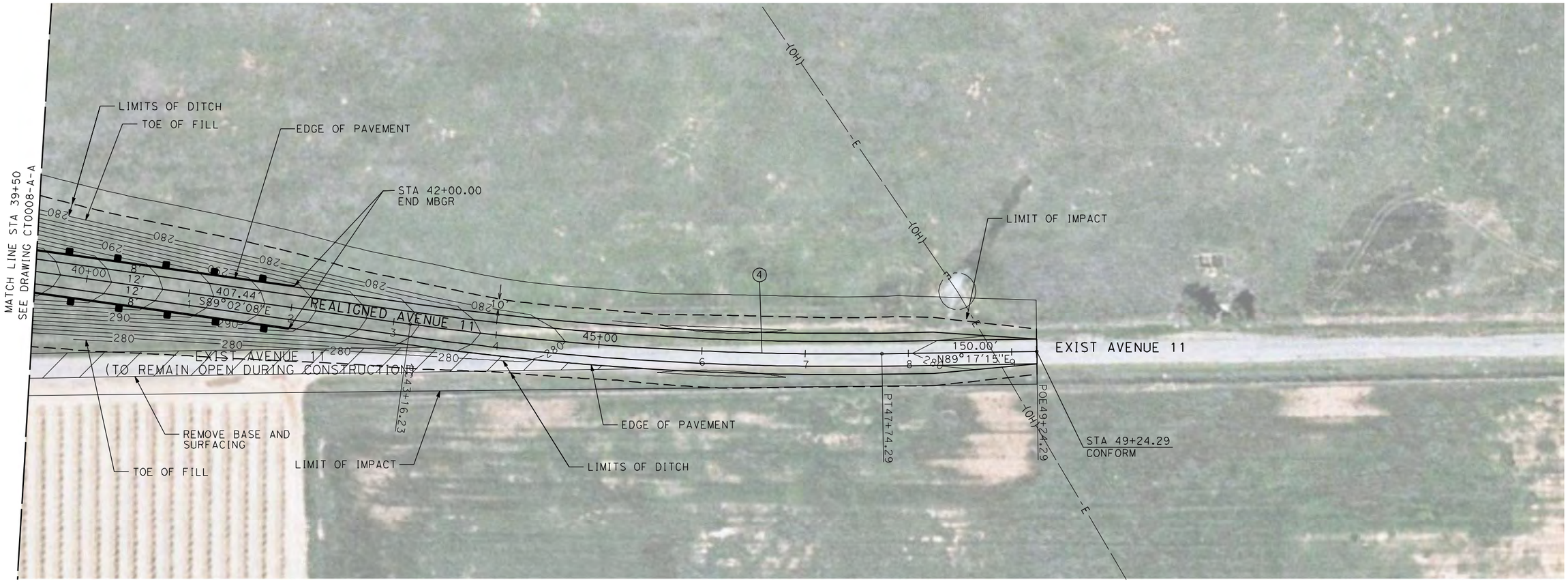
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 11
LAYOUT
SHEET 2 OF 3

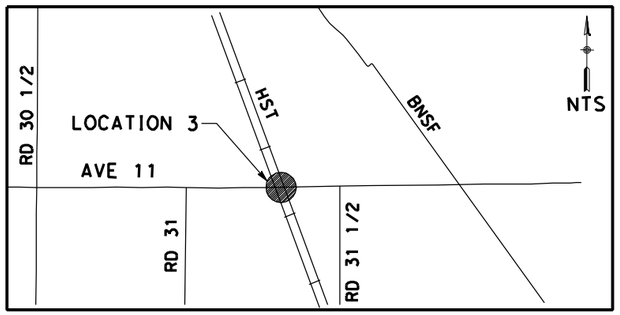
CONTRACT NO. HST06-007
DRAWING NO. CT0008-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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GibsonR1

CURVE DATA

NO.	R	Δ	T	L	V
④	3000.00'	8°44'53"	229.47'	458.05'	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1006-A THROUGH CT1008-A.

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY J. ZANDIAN
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

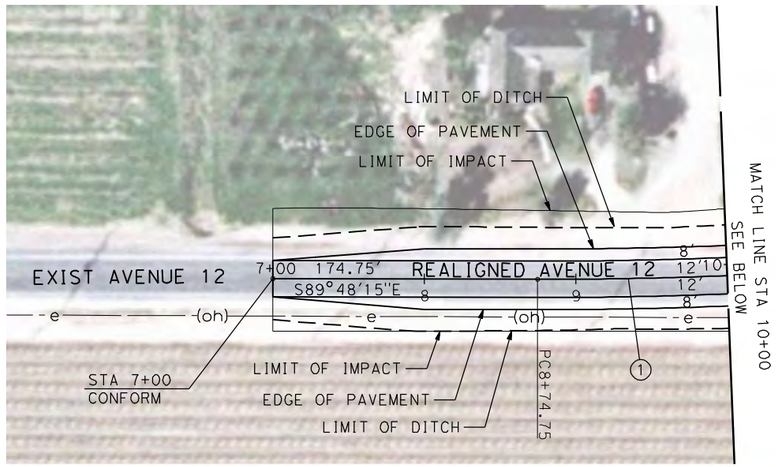
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 11
LAYOUT
SHEET 3 OF 3

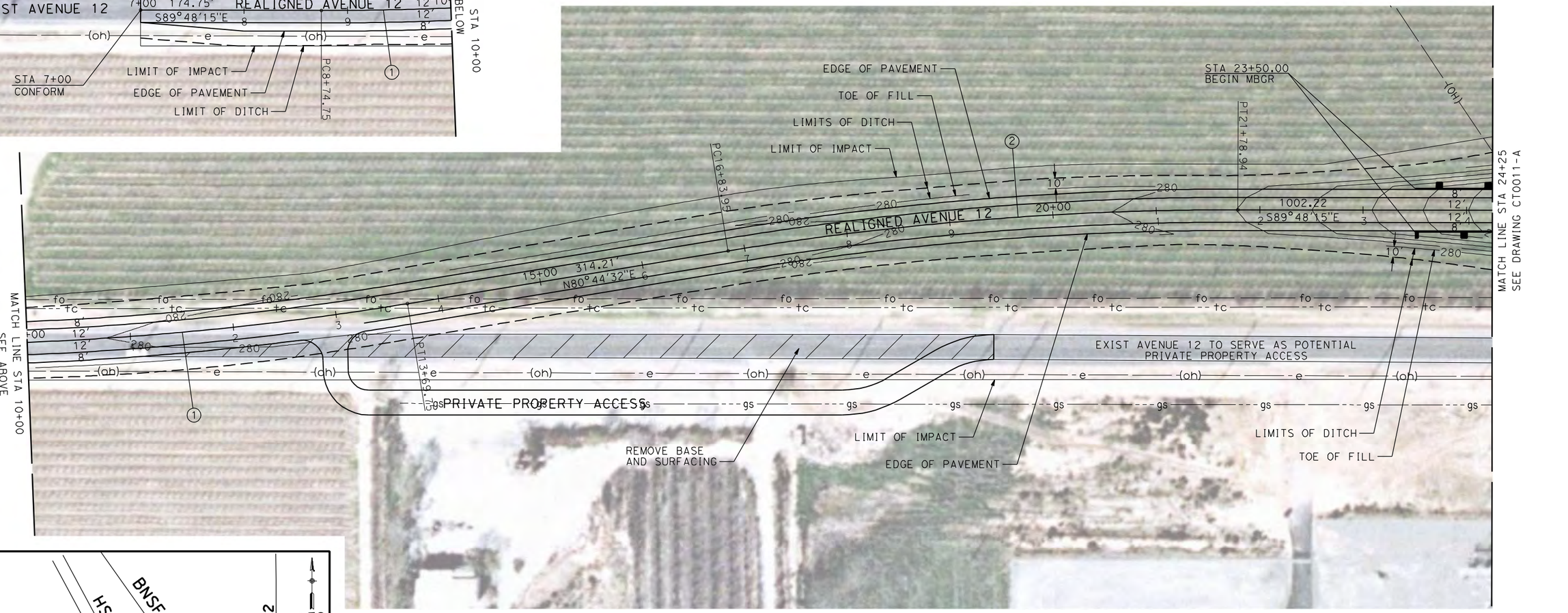
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DRAWING NO. CT0009-A
SCALE AS SHOWN
SHEET NO. ### OF ###

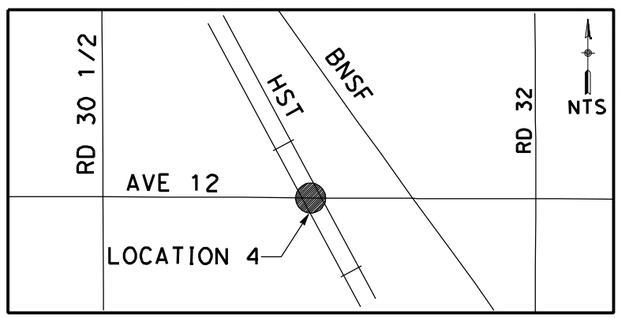
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GibsonR1

CURVE DATA

NO.	R	Δ	T	L	V
①	3000.00′	9°27′13"	248.06′	494.99′	45 MPH
②	3000.00′	9°27′13"	248.06′	494.99′	45 MPH







50 0 50 100
1"=50′

NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1009-A THROUGH CT1011-A.

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY J. ZANDIAN
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 12
LAYOUT
SHEET 1 OF 3

CONTRACT NO. HST06-007
DRAWING NO. CT0010-A
SCALE AS SHOWN
SHEET NO. ### OF ###

GibsonR1 1/10/2012 3:50:53 PM i:\chsr\6002962\task-03_merced-fresno\cadd\civil\design\gibsonr\rev 1 - 15% plans\cadd\sheet\plans\a1 MF-CT-0010-A_REV1.dgn

CURVE DATA

NO.	R	Δ	T	L	V
③	5000.00'	6°52'32"	300.36'	600.00'	45 MPH

HST R/W

℄ HST TRACKS
A1-21ML
(DRAWING T1120-A)

LIMITS OF DITCH
TOE OF FILL
EDGE OF PAVEMENT
LIMIT OF IMPACT

STA 30+67.51
END MBGR

HST STA 2384+77.14=
STA 31+90.07

STA 32+96.36
BEGIN MBGR

STA 33+04.74
END BRIDGE

LIMITS OF DITCH
EDGE OF PAVEMENT
LIMIT OF IMPACT
TOE OF FILL

MATCH LINE STA 24+25
SEE DRAWING CT0010-A

1315.7' REALIGNED AVENUE 12 S89°48'15"E

MATCH LINE STA 38+50
SEE DRAWING CT0012-A

EXIST AVENUE 12 TO SERVE AS
POTENTIAL PRIVATE PROPERTY ACCESS

EXIST AVENUE 12 TO SERVE AS
POTENTIAL PRIVATE PROPERTY ACCESS

LIMIT OF IMPACT
LIMITS OF DITCH
TOE OF FILL
EDGE OF PAVEMENT

STA 30+75.94
BEGIN BRIDGE

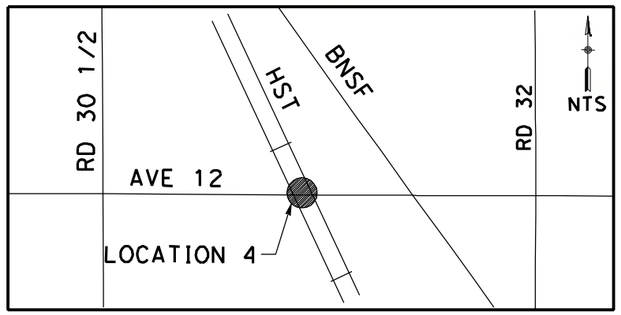
STA 30+82.73
END MBGR

PROPOSED AVENUE 12 OVERHEAD

STA 33+11.49
BEGIN MBGR

REMOVE BASE
AND SURFACING

TOE OF FILL
LIMIT OF IMPACT
EDGE OF PAVEMENT
LIMITS OF DITCH



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1009-A THROUGH CT1011-A.

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY J. ZANDIAN
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

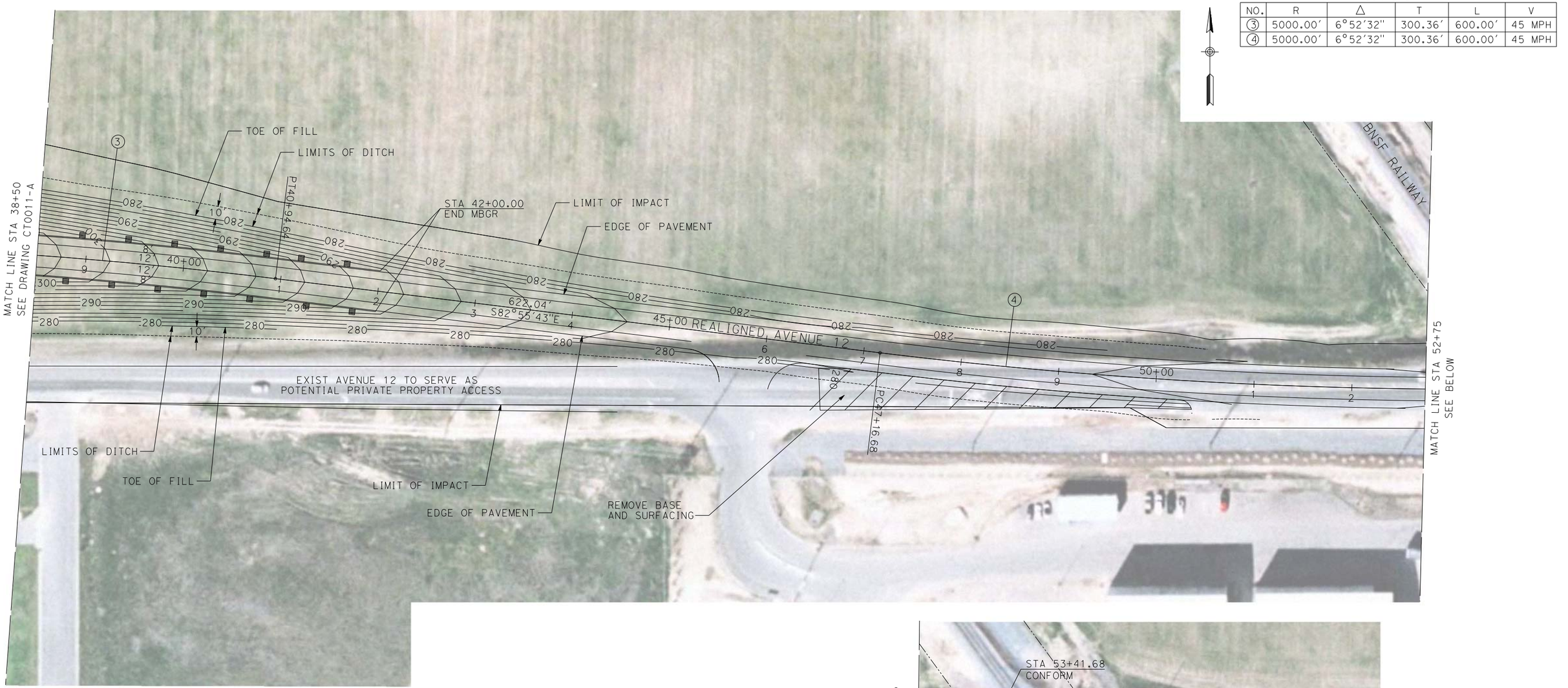
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

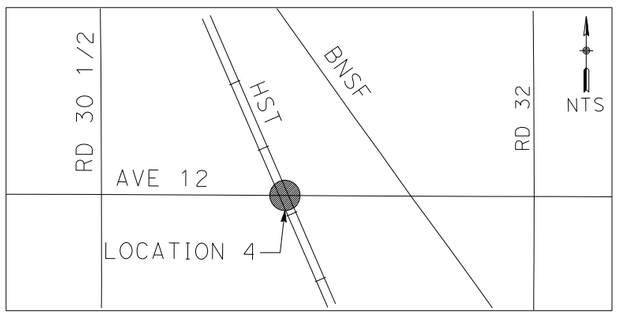
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 12
LAYOUT
SHEET 2 OF 3

CONTRACT NO. HST06-007
DRAWING NO. CT0011-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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CURVE DATA					
NO.	R	Δ	T	L	V
③	5000.00′	6°52′32"	300.36′	600.00′	45 MPH
④	5000.00′	6°52′32"	300.36′	600.00′	45 MPH







NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1009-A THROUGH CT1011-A.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY J. ZANDIAN
IN CHARGE A. BOONE
DATE 02/17/2012

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 12
LAYOUT
SHEET 3 OF 3

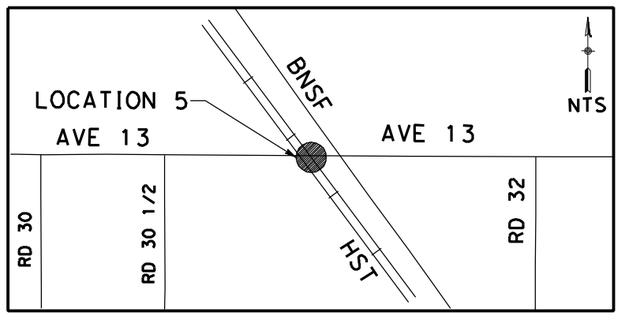
CONTRACT NO. HST06-007
DRAWING NO. CT0012-A
SCALE AS SHOWN
SHEET NO. OF ###

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CURVE DATA

NO.	R	Δ	T	L	V
①	5000.00'	6°52'32"	300.36'	600.00'	45 MPH
②	5000.00'	6°52'32"	300.36'	600.00'	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1012-A THROUGH CT1014-A.

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY J. ZANDIAN
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

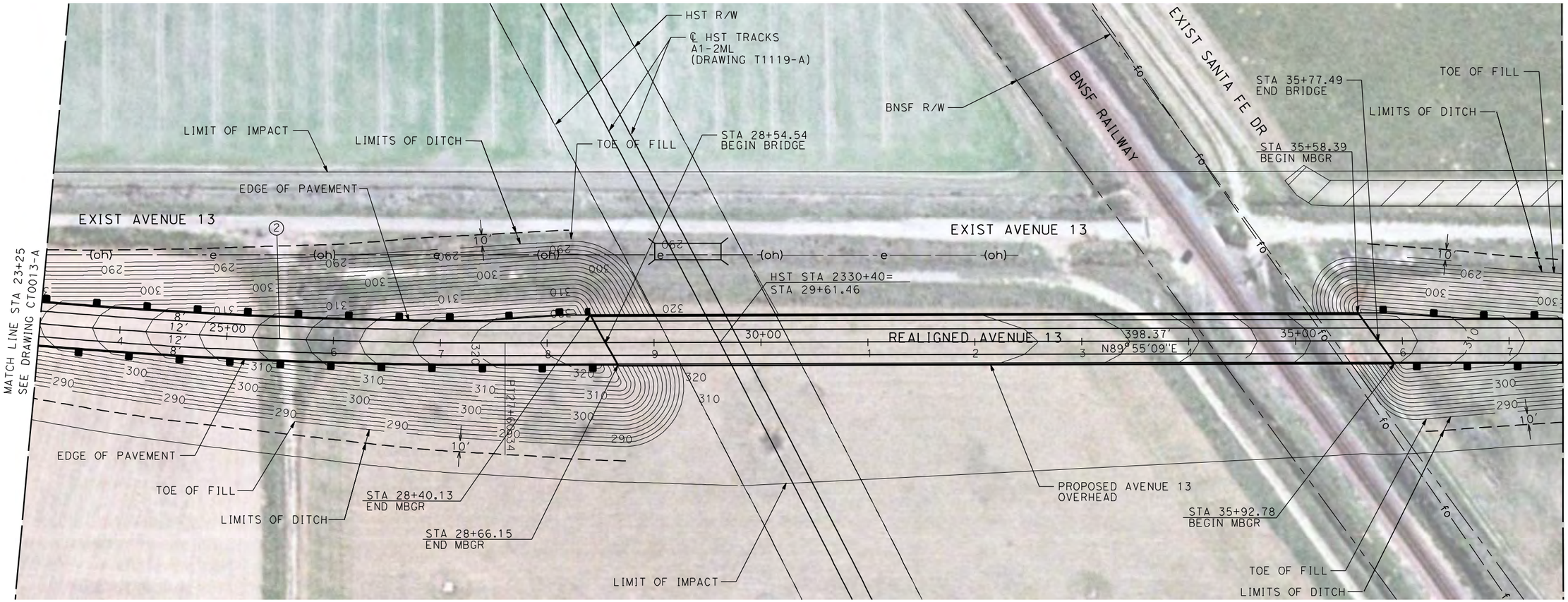
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 13
LAYOUT
SHEET 1 OF 4

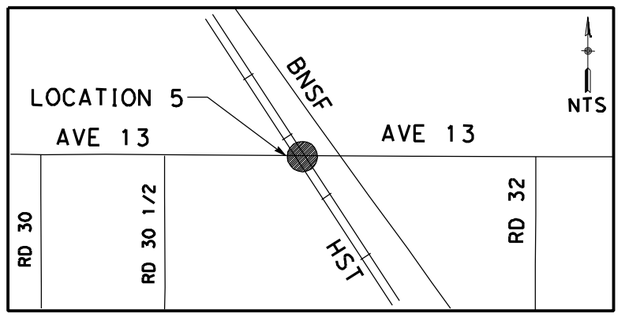
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SHEET NO. ### OF ###

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GibsonR1

CURVE DATA

NO.	R	Δ	T	L	V
②	5000.00′	6°52′32″	300.36′	600.00′	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1012-A THROUGH CT1014-A.

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY J. ZANDIAN
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

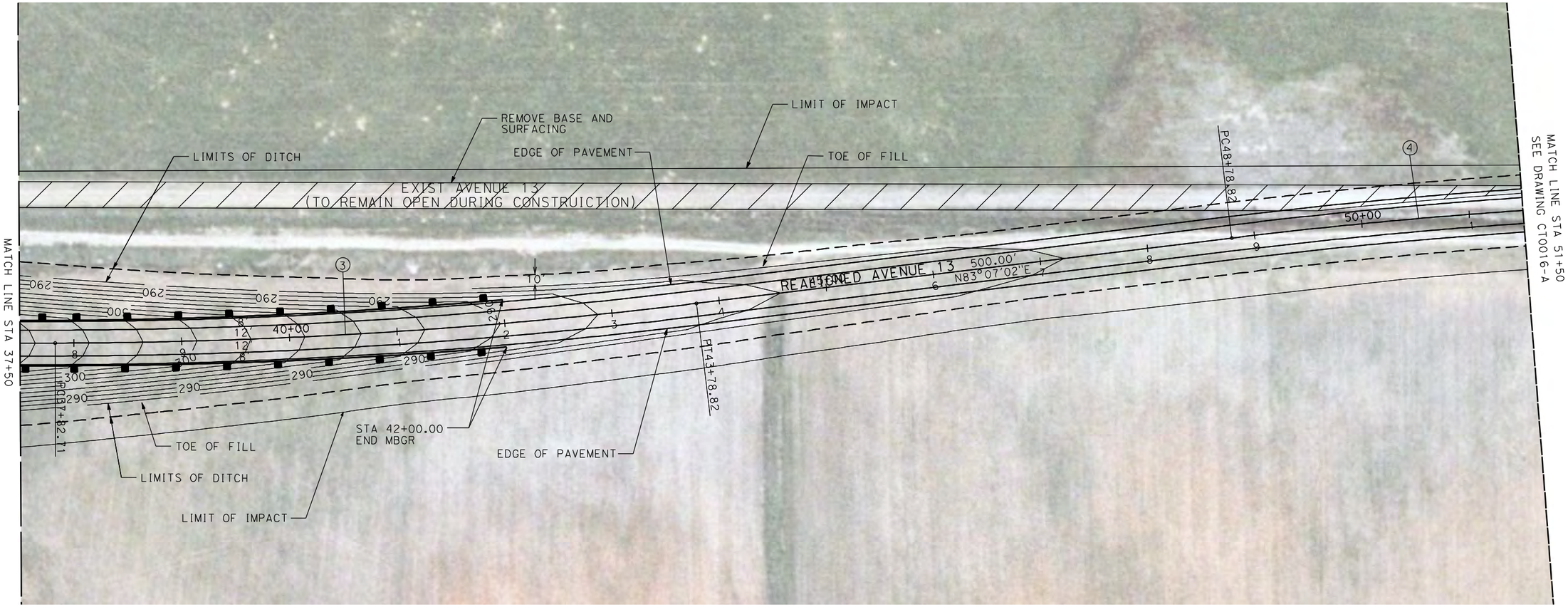
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 13
LAYOUT
SHEET 2 OF 4

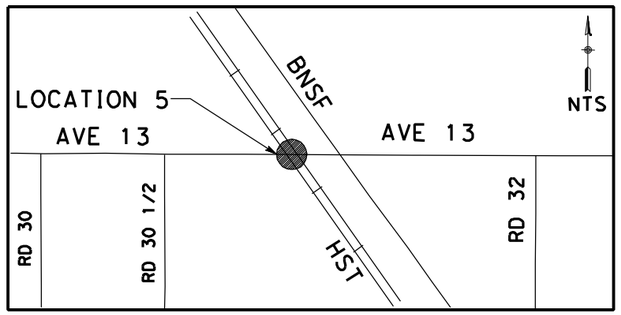
CONTRACT NO. HST06-007
DRAWING NO. CT0014-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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GibsonR1

CURVE DATA

NO.	R	Δ	T	L	V
③	5000.00'	6°49'51"	298.41'	596.11'	45 MPH
④	5000.00'	6°52'32"	300.36'	600.00'	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1012-A THROUGH CT1014-A.

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY J. ZANDIAN
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 13
LAYOUT
SHEET 3 OF 4

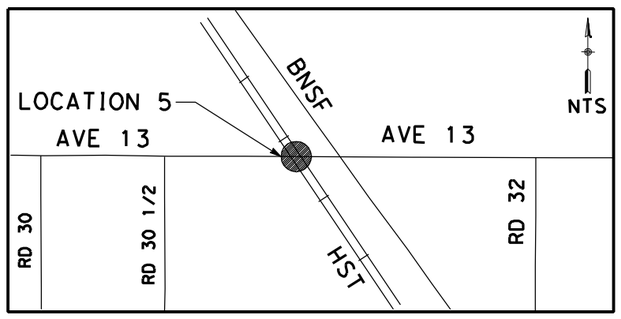
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DRAWING NO. CT0015-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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CURVE DATA

NO.	R	Δ	T	L	V
④	5000.00'	6°52'32"	300.36'	600.00'	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1012-A THROUGH CT1014-A.

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY J. ZANDIAN
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

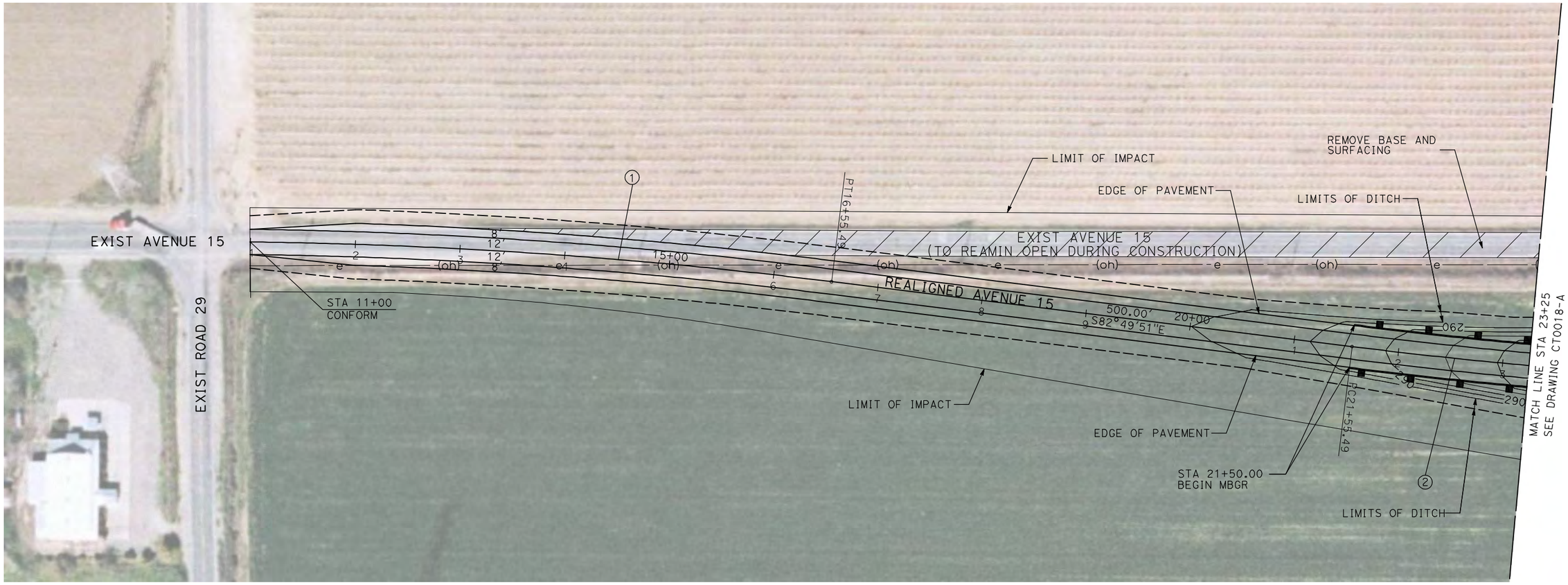
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 13
LAYOUT
SHEET 4 OF 4

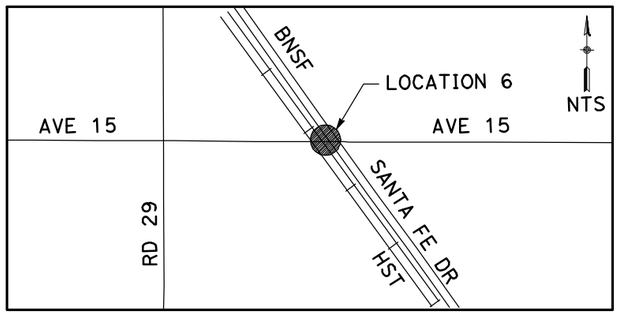
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DRAWING NO. CT0016-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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CURVE DATA

NO.	R	Δ	T	L	V
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②	5000.00'	6°52'32"	300.36'	600.00'	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1015-A THROUGH CT1017-A.

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

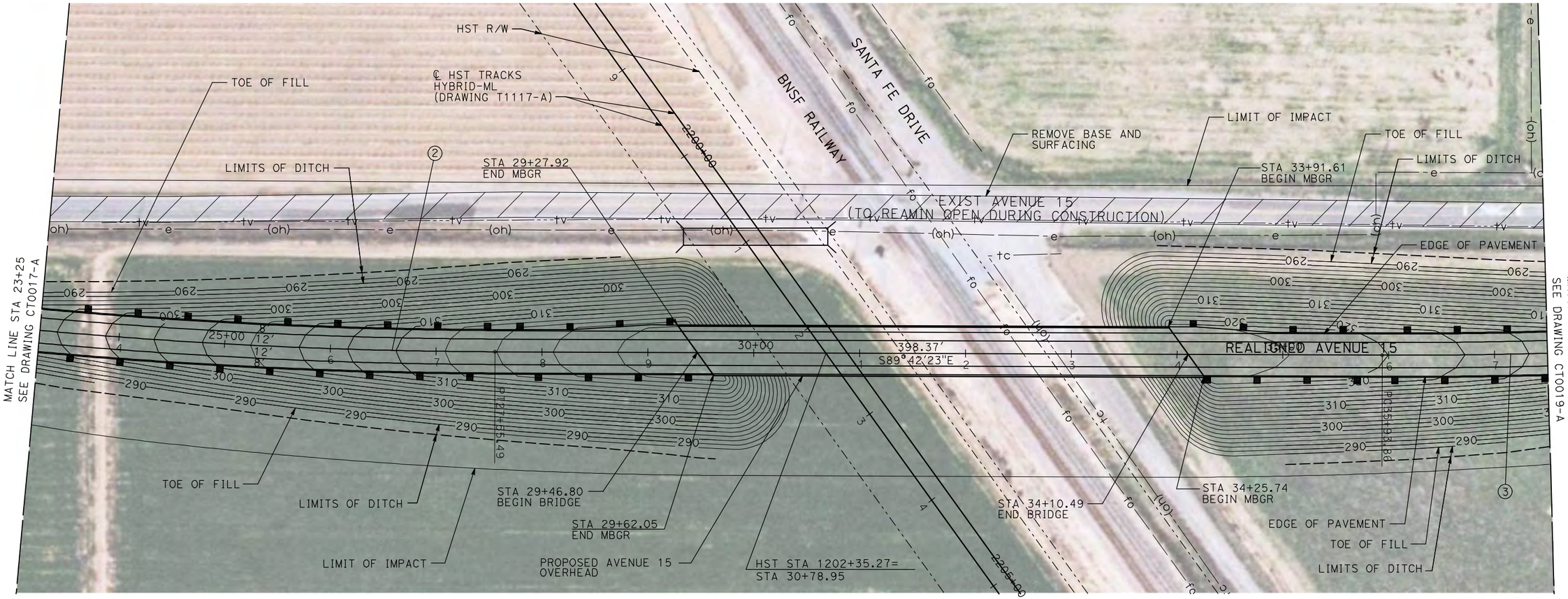
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 15
LAYOUT
SHEET 1 OF 3

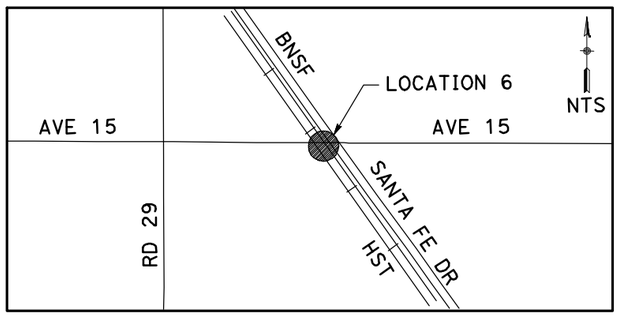
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DRAWING NO. CT0017-A
SCALE AS SHOWN
SHEET NO. OF ###

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CURVE DATA

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③	5000.00′	6°52′32"	300.36′	600.00′	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1015-A THROUGH CT1017-A.

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

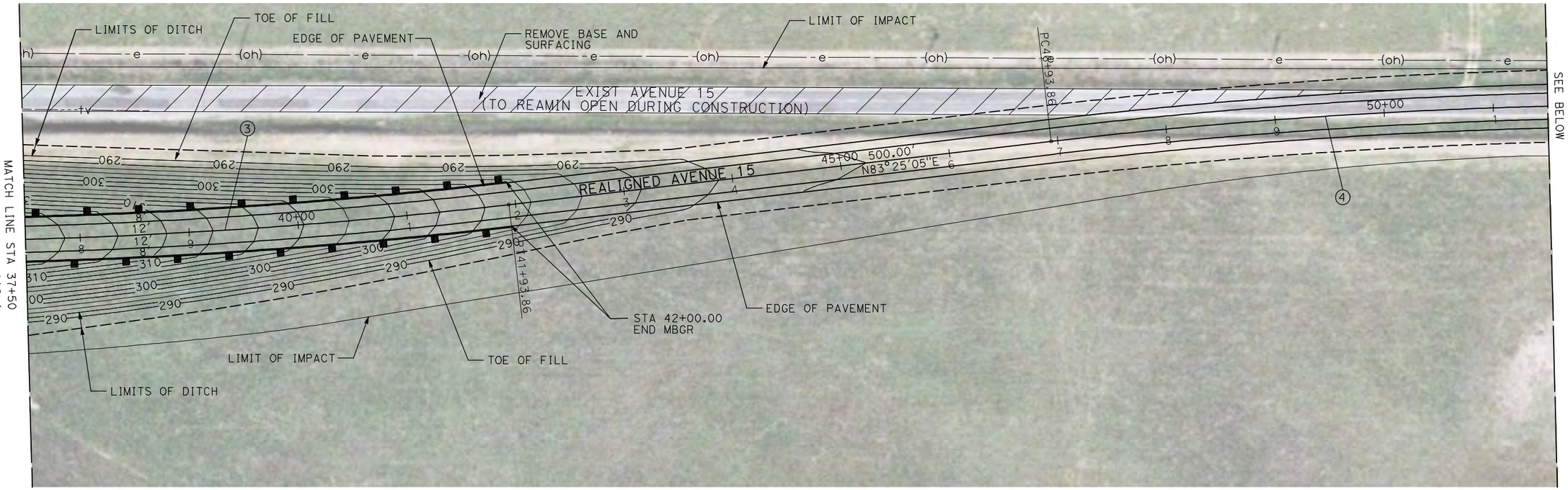
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 15
LAYOUT
SHEET 2 OF 3

CONTRACT NO. HST06-007
DRAWING NO. CT0018-A
SCALE AS SHOWN
SHEET NO. OF ###

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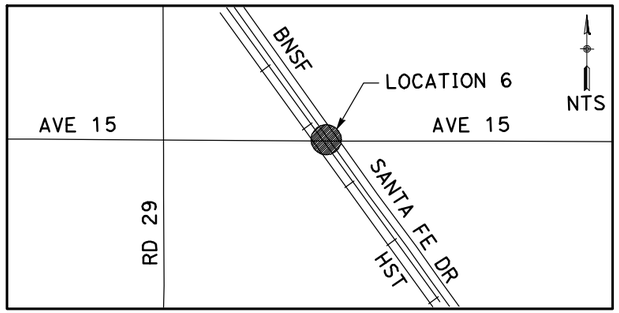
CURVE DATA

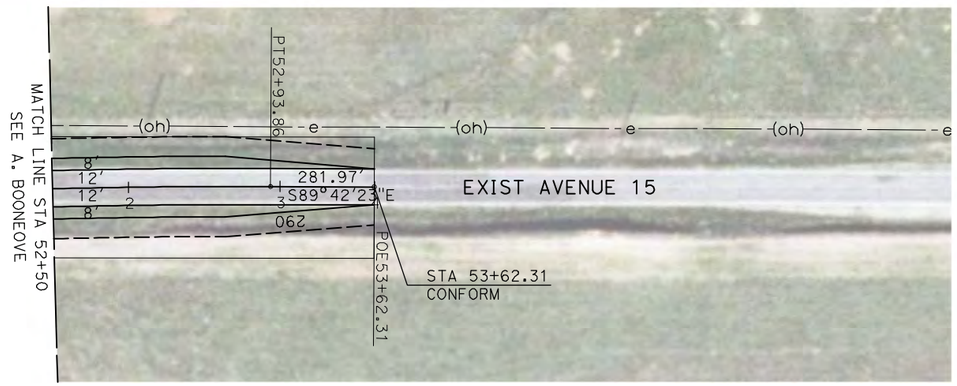
NO.	R	Δ	T	L	V
③	5000.00′	6°52′32"	300.36′	600.00′	45 MPH
④	5000.00′	6°52′32"	300.36′	600.00′	45 MPH



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1015-A THROUGH CT1017-A.





50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

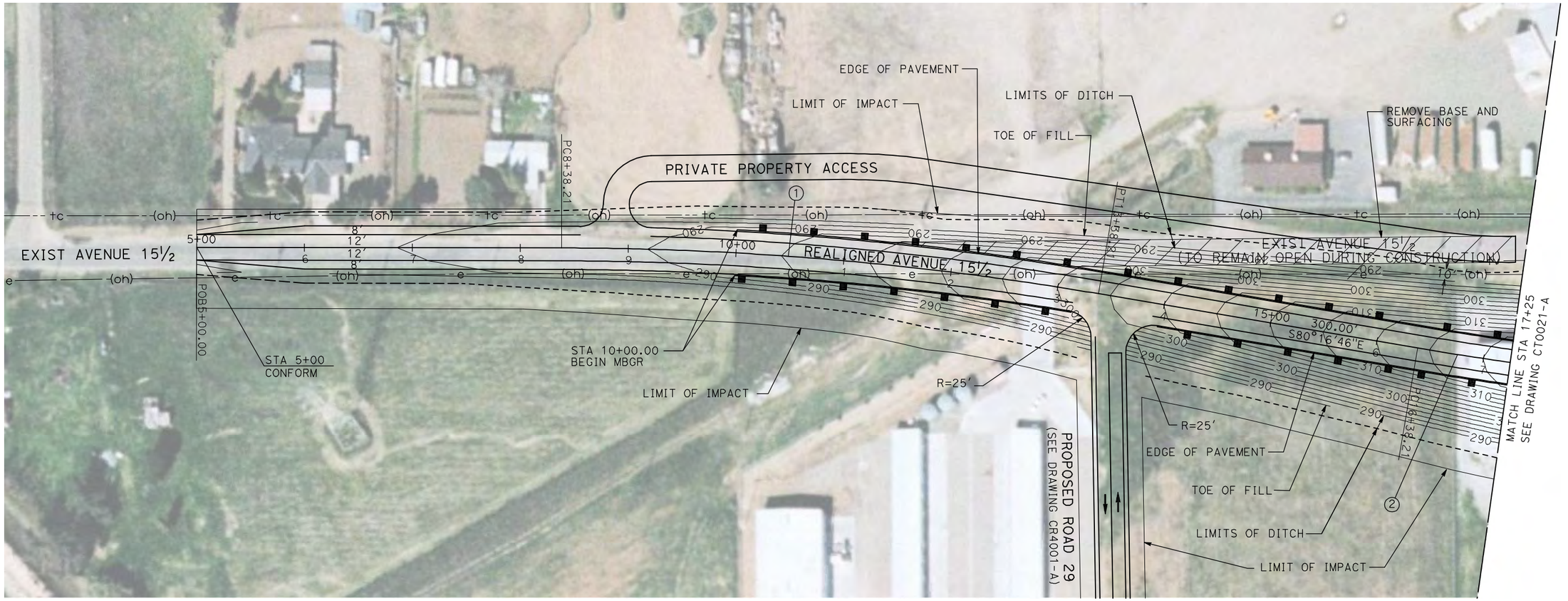
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 15
LAYOUT
SHEET 3 OF 3

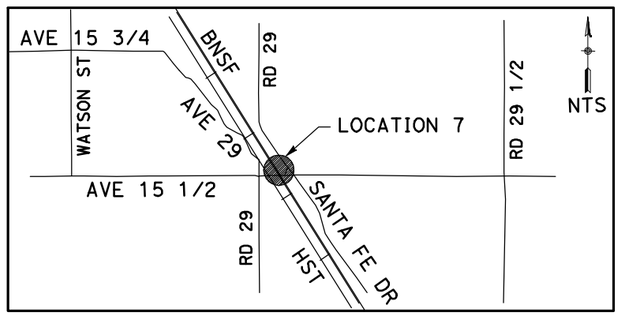
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CURVE DATA

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①	3000.00′	9°32′57"	250.58′	500.00′	45 MPH
②	3000.00′	9°32′57"	250.58′	500.00′	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1018-A THROUGH CT1020-A.

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 15 1/2
LAYOUT
SHEET 1 OF 3

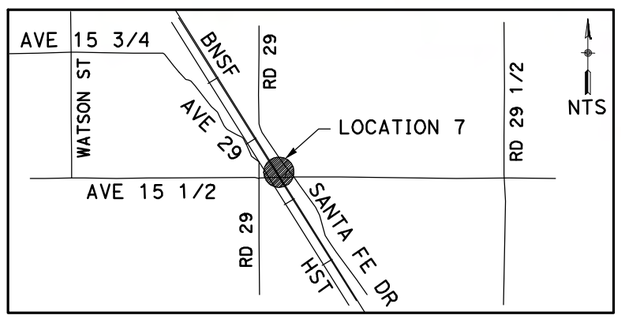
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DRAWING NO. CT0020-A
SCALE AS SHOWN
SHEET NO. OF ###

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CURVE DATA

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③	3000.00′	9°32′57"	250.58′	500.00′	45 MPH

HST R/W
℄ HST TRACKS HYBRID-ML (DRAWING T116-A)
LIMITS OF DITCH
TOE OF FILL
EDGE OF PAVEMENT
BNSF RAILWAY
BNSF R/W
SANTA FE DRIVE
LIMIT OF IMPACT
PROPOSED AVENUE 15 1/2 OVERHEAD
REMOVE BASE AND SURFACING
EXIST AVENUE 15½TO SERVE AS POTENTIAL PRIVATE PROPERTY ACCESS
EXIST AVENUE 15½ (TO REMAIN OPEN DURING CONSTRUCTION)
EXIST AVENUE 15 1/2 TO SERVE AS POTENTIAL PRIVATE PROPERTY ACCESS
REALIGNED AVENUE 15 1/2
ROAD 29
MATCH LINE STA 17+25 SEE DRAWING CT0020-A
MATCH LINE STA 31+50 SEE DRAWING CT0022-A
PT 21+38.80
ST 21+93.98
ST 1169+50.71
25+00 394.04′ S89°49′43"E
STA 28+46.78 BEGIN MBGR
STA 28+46.78 END BRIDGE
STA 28+46.78 BEGIN MBGR
LIMITS OF DITCH
TOE OF FILL
R=25′
R=25′
STA 22+51.49 END MBGR
STA 22+51.49 BEGIN BRIDGE
STA 22+51.49 END MBGR
LIMIT OF IMPACT
HST STA 2169+64.41= STA 24+62.41
TOE OF FILL
LIMITS OF DITCH
EDGE OF PAVEMENT



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1018-A THROUGH CT1020-A.

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

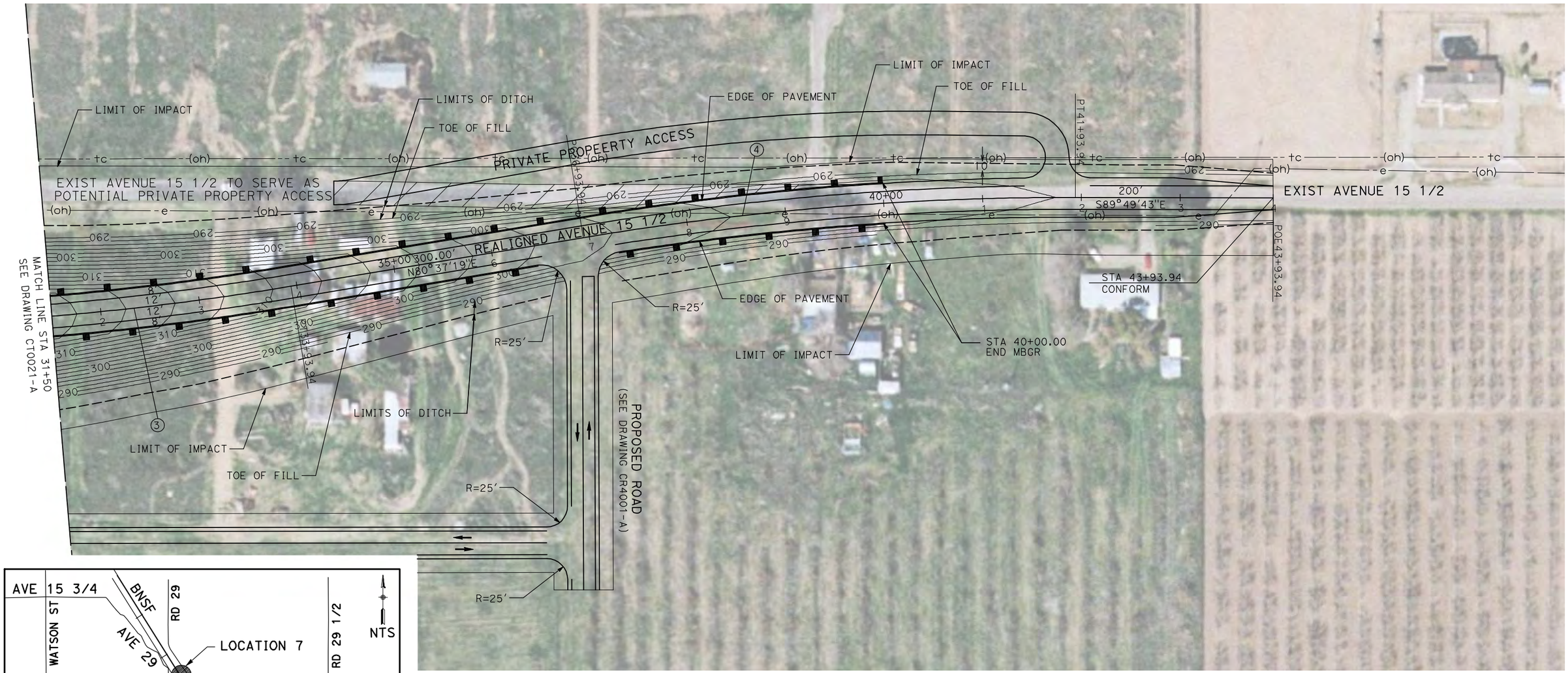
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 15 1/2
LAYOUT
SHEET 2 OF 3

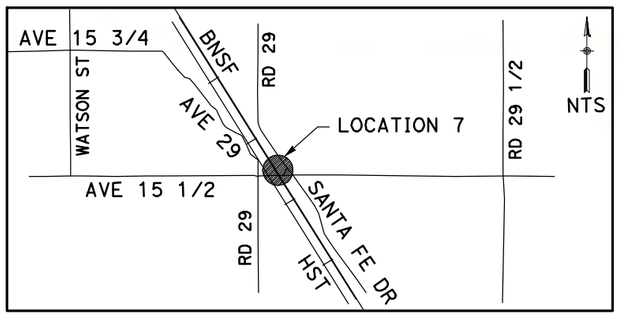
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DRAWING NO. CT0021-A
SCALE AS SHOWN
SHEET NO. OF ###

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GibsonR1

CURVE DATA

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④	3000.00′	9°32′57″	250.58′	500.00′	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1018-A THROUGH CT1020-A.

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

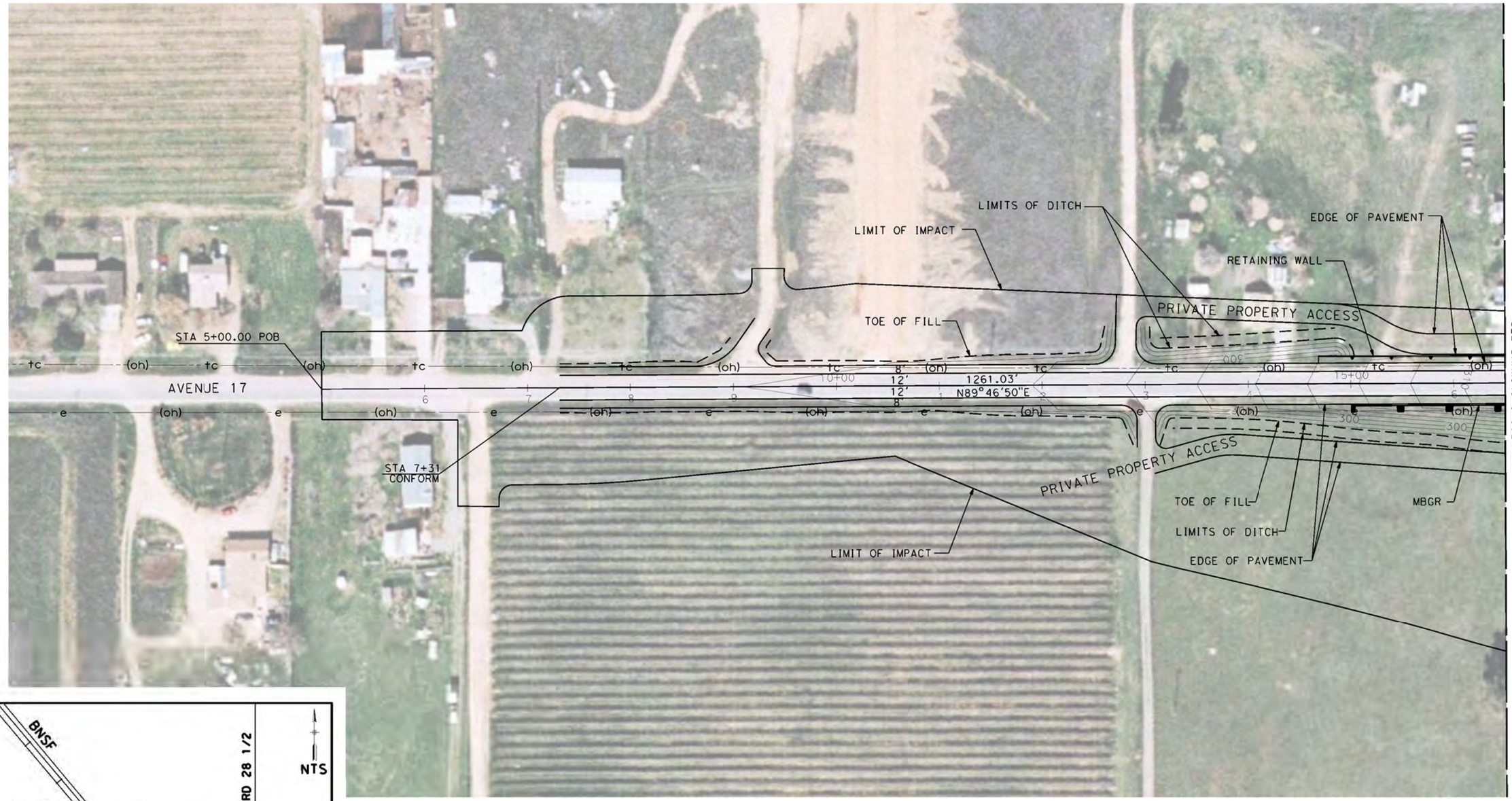
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

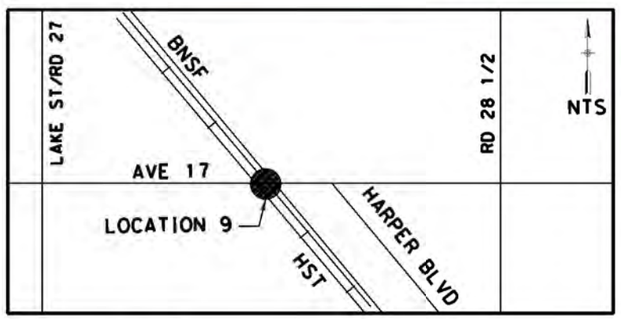
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 15 1/2
LAYOUT
SHEET 3 OF 3

CONTRACT NO. HST06-007
DRAWING NO. CT0022-A
SCALE AS SHOWN
SHEET NO. OF ###

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GibsonR1





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1024-A THROUGH CT1026-A.

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY J. ZANDIAN
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

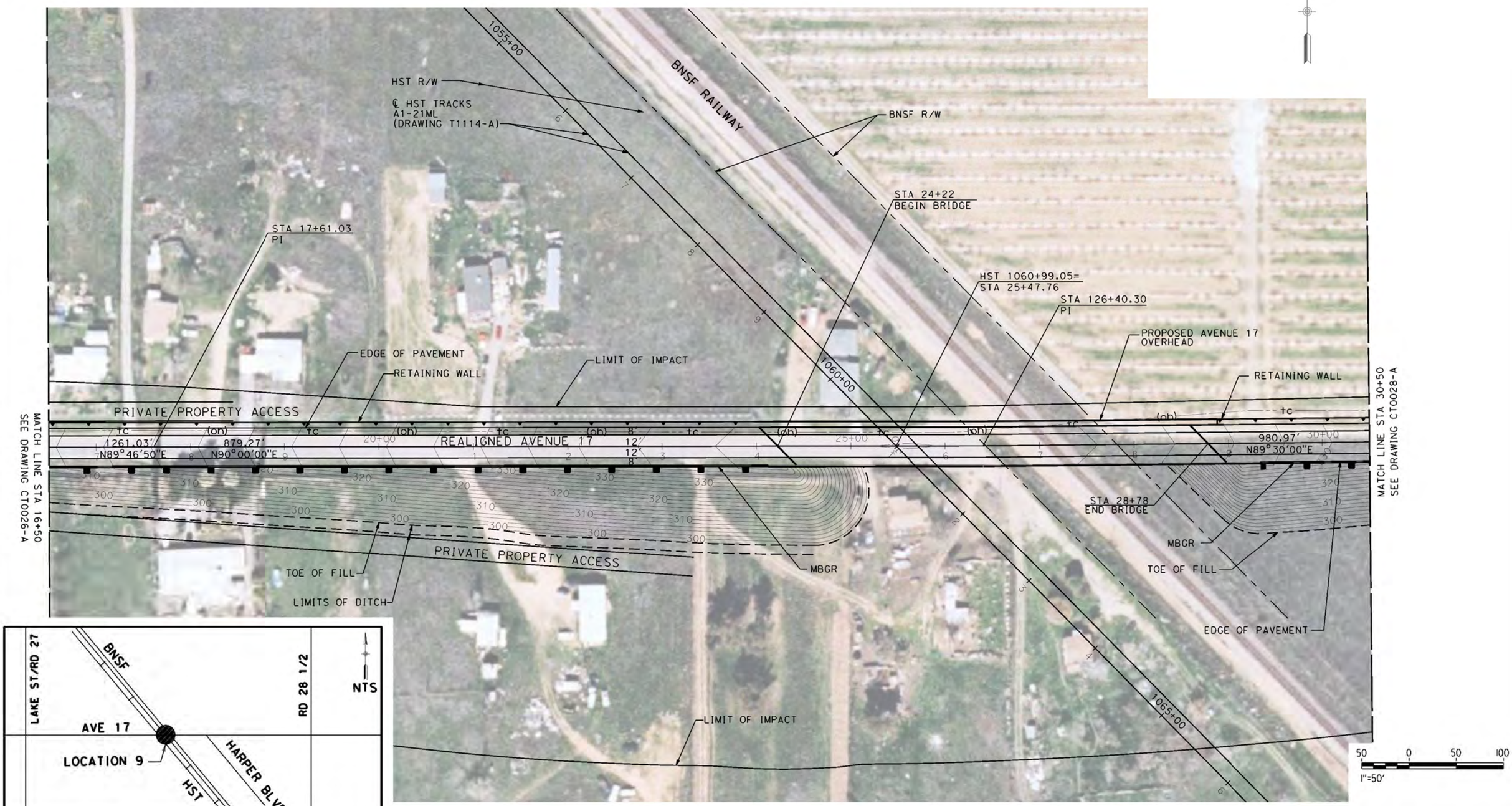
HYBRID MAIN LINE - (AVE 24 WYE)
GRADE SEPARATION - AVENUE 17
LAYOUT
SHEET 1 OF 3

CONTRACT NO. HST06-007
DRAWING NO. CT0026-A
SCALE AS SHOWN
SHEET NO. OF ###

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lros

NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1024-A THROUGH CT1026-A.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: R. GIBSON
DRAWN BY: H. PHAN
CHECKED BY: J. ZANDIAN
IN CHARGE: A. BOONE
DATE: 07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

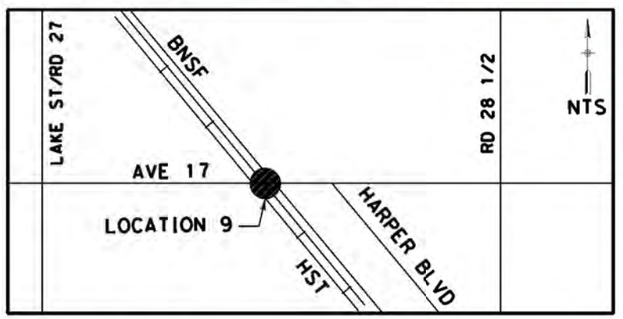
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

HYBRID MAIN LINE - (AVE 24 WYE)
GRADE SEPARATION - AVENUE 17
LAYOUT
SHEET 2 OF 3

CONTRACT NO. HST06-007
DRAWING NO. CT0027-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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lros





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1024-A THROUGH CT1026-A.

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY J. ZANDIAN
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

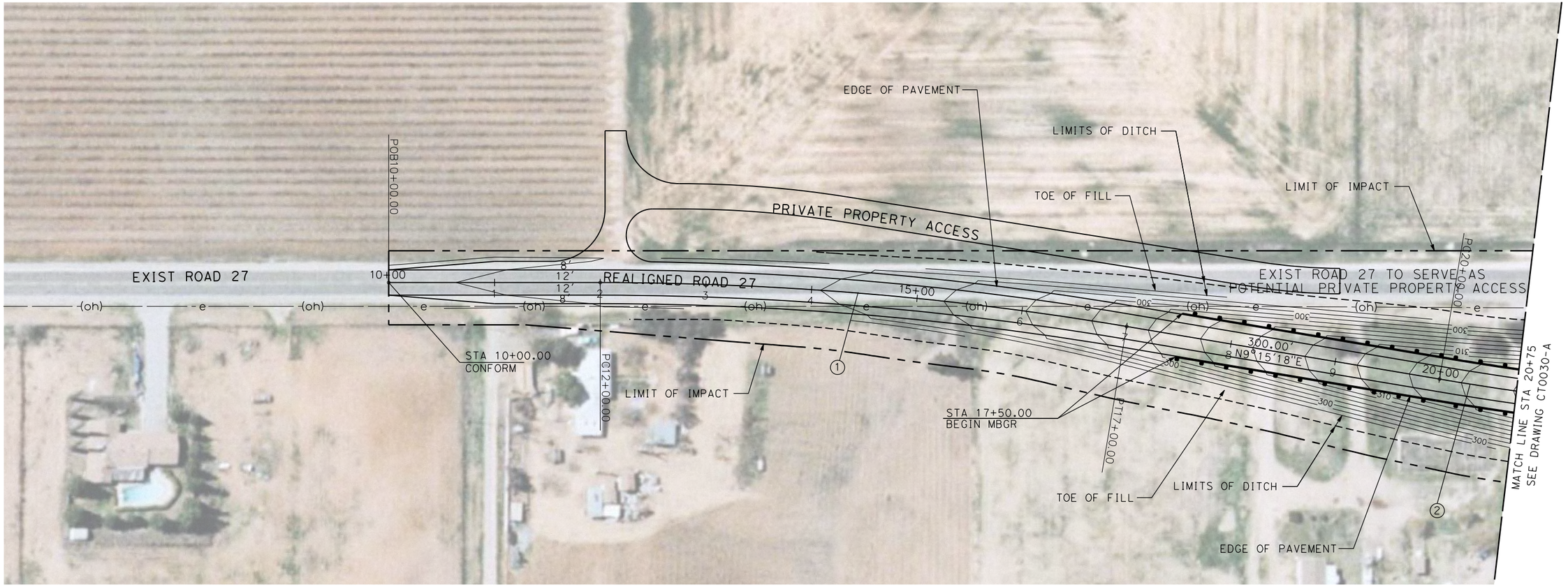
HYBRID MAIN LINE - (AVE 24 WYE)
GRADE SEPARATION - AVENUE 17
LAYOUT
SHEET 3 OF 3

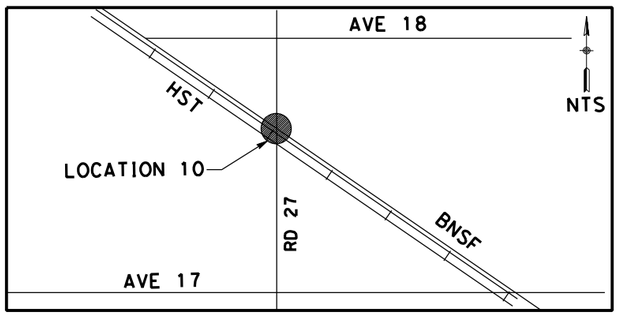
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SCALE AS SHOWN
SHEET NO. OF ###

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lros

CURVE DATA

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②	3000.00′	9°32′57"	250.58′	500.00′	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1029-A THROUGH CT1031-A.

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 27
LAYOUT
SHEET 1 OF 3

CONTRACT NO. HST06-007
DRAWING NO. CT0029-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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DeMarcoF

\\ussclf1fp001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\500 Submittals\501 In Progress Draft Submittal\501.1 Deliverable 1\Volume III APRIL 2012\PART 1\K1\WF-CT-0030-A.dgn 4/5/2012 4:46:36 PM DeMarcoF

CURVE DATA

NO.	R	Δ	T	L	V
②	3000.00′	9°32′57"	250.58′	500.00′	45 MPH
③	3000.00′	9°32′57"	250.58′	500.00′	45 MPH

℄ HST TRACKS
HYBRID-ML
(DRAWING T1113-A)

HST R/W

BNSF R/W

BNSF RAILWAY

EDGE OF PAVEMENT

LIMITS OF DITCH

LIMIT OF IMPACT

LIMITS OF DITCH

TOE OF FILL

STA 26+96.00
END MBGR

STA 26+96.00
BEGIN BRIDGE

EXIST ROAD 27 TO SERVE AS
POTENTIAL PRIVATE PROPERTY ACCESS

PT 25+00.000

PC 32+39.000

20+00

25+00 REALIGNED ROAD 27

450.05′ 30+00
N0°17′40"W

MATCH LINE STA 20+75
SEE DRAWING CT0029-A

MATCH LINE STA 35+00
SEE DRAWING CT0031-A

LIMITS OF DITCH

TOE OF FILL

STA 26+96.00
END MBGR

PROPOSED ROAD 27
OVERHEAD

20+00

HST STA 2011+26.38=
STA 27+83.54

LIMIT OF IMPACT

STA 30+87.00
BEGIN MBGR

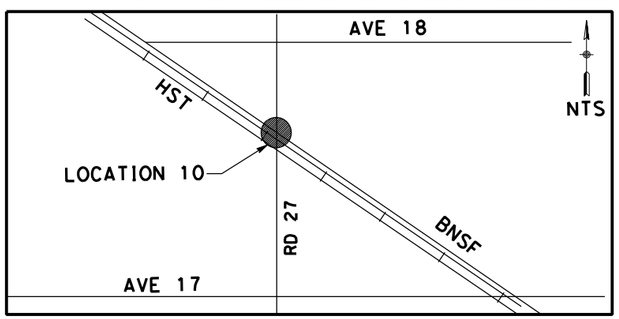
STA 30+87.00
END BRIDGE

STA 30+87.00
BEGIN MBGR

TOE OF FILL

LIMITS OF DITCH

EDGE OF PAVEMENT



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1029-A THROUGH CT1031-A.

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 27
LAYOUT
SHEET 2 OF 3

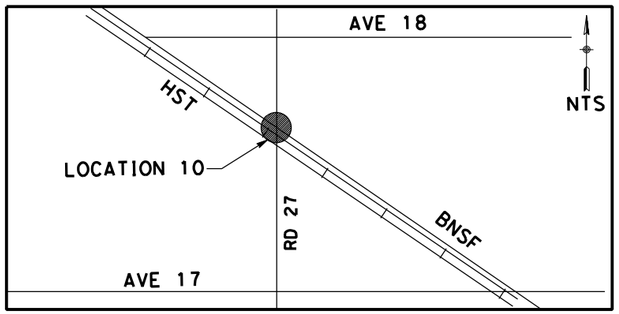
CONTRACT NO. HST06-007
DRAWING NO. CT0030-A
SCALE AS SHOWN
SHEET NO. ### OF ###

\\usscr1fp001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\500 Submittals\501 In Progress Draft Submittal\501.1 Deliverable 1\Volume III APRIL 2012\PART 1\K1WF-CT-0031-A.dgn 4/5/2012 4:47:17 PM DeMarcoF

CURVE DATA

NO.	R	Δ	T	L	V
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④	3000.00′	9°32′57"	250.58′	500.00′	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1029-A THROUGH CT1031-A.

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

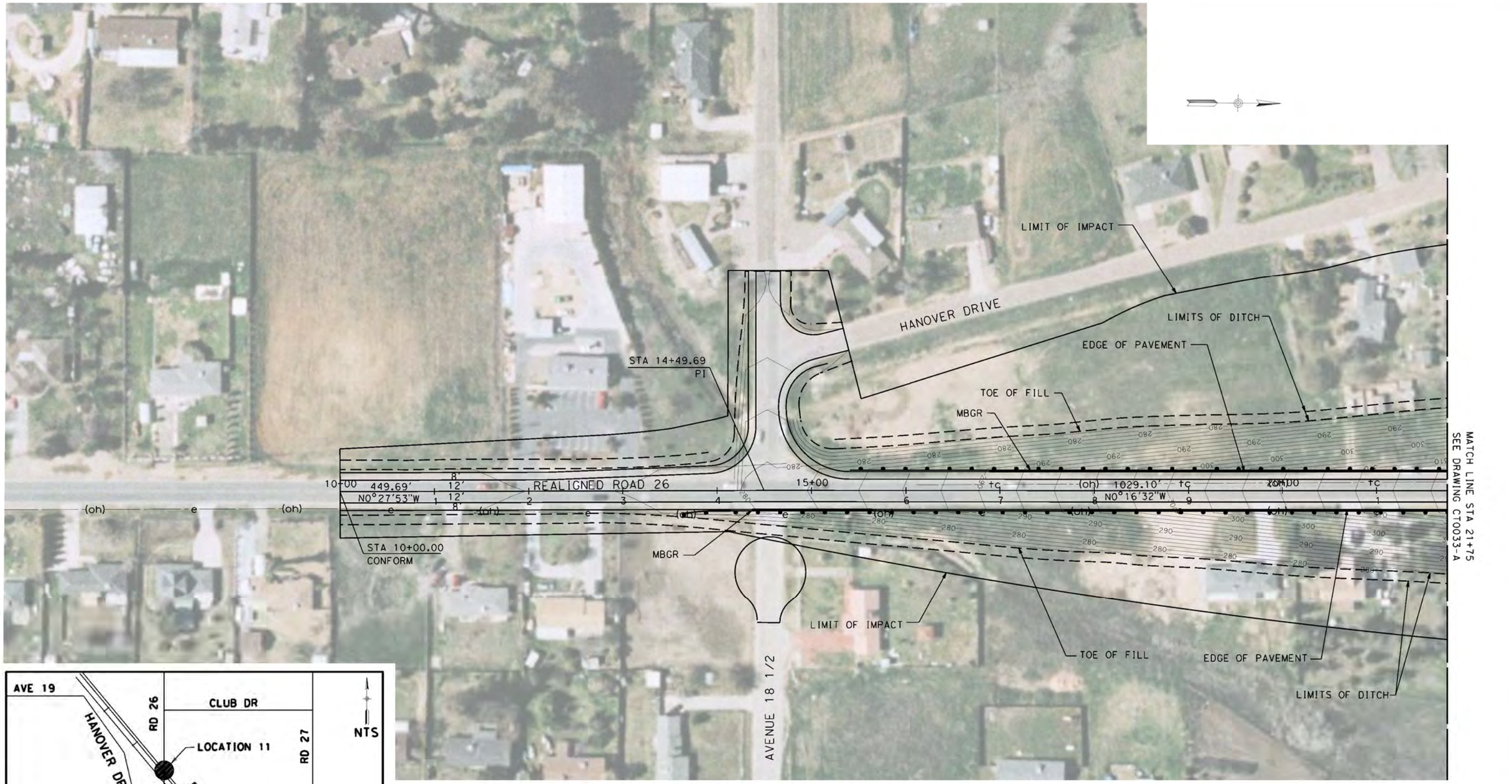
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

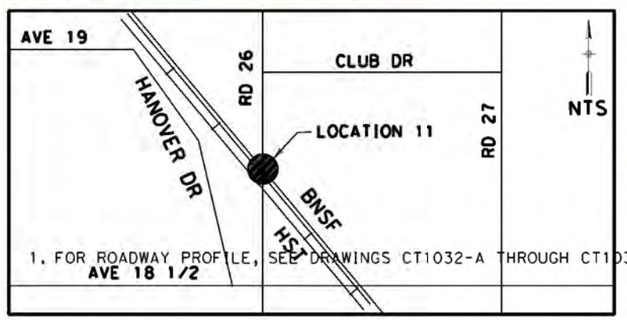
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 27
LAYOUT
SHEET 3 OF 3

CONTRACT NO. HST06-007
DRAWING NO. CT0031-A
SCALE AS SHOWN
SHEET NO. ### OF ###





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1032-A THROUGH CT1034-A.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

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Sacramento, CA 95811

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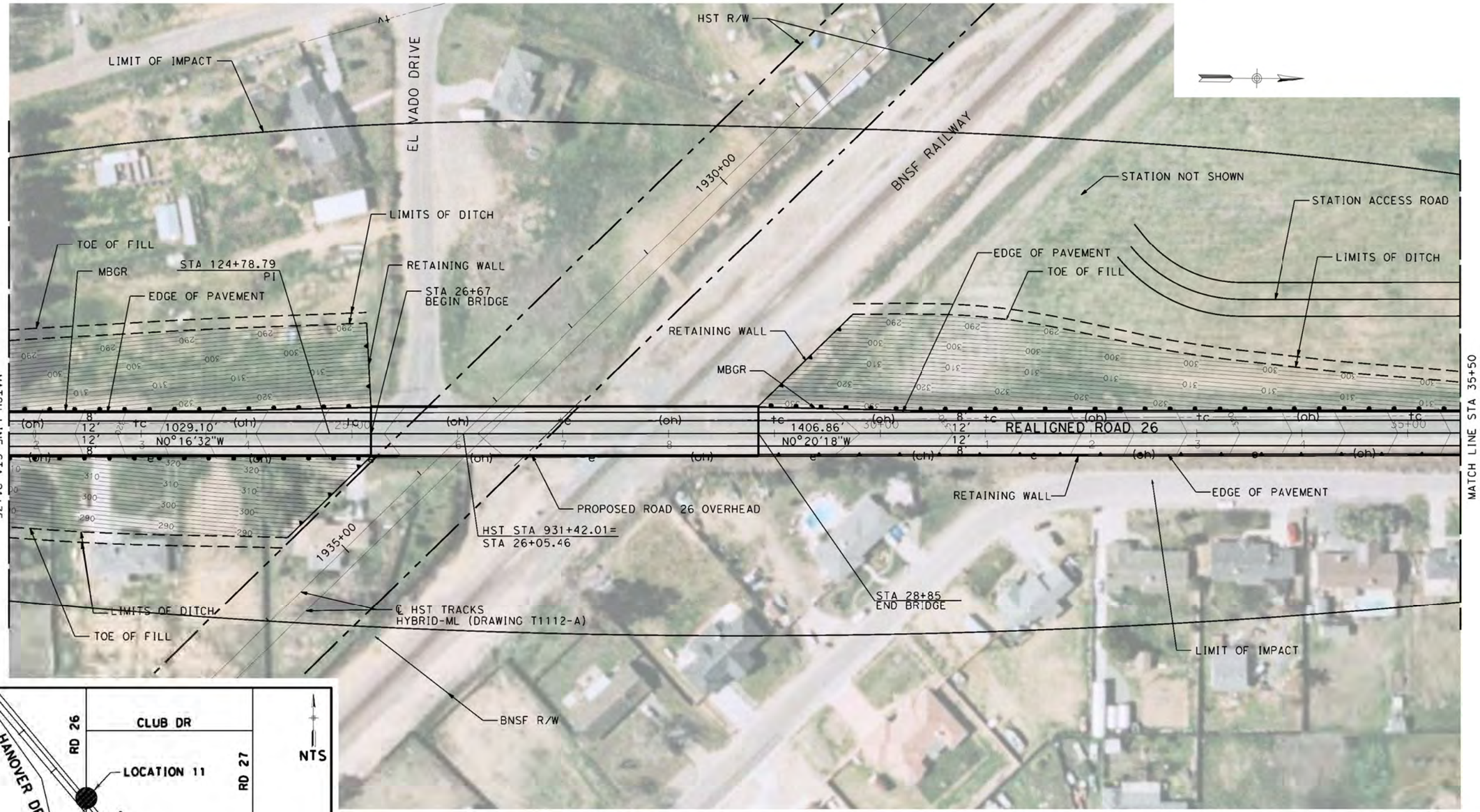
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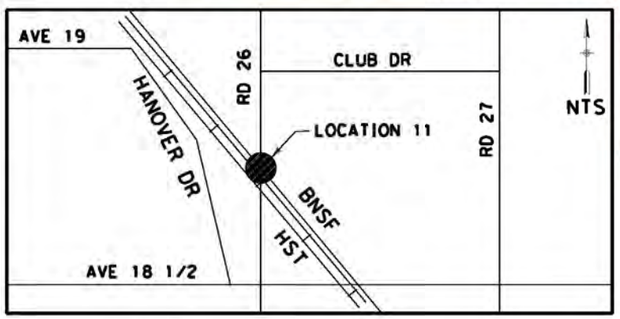
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

HYBRID MAIN LINE - (AVE 24 WYE)
GRADE SEPARATION - ROAD 26
LAYOUT
SHEET 1 OF 3

CONTRACT NO. HST06-007
DRAWING NO. CT0032-A
SCALE AS SHOWN
SHEET NO. ### OF ###

C:\Projects\356751 - California High Speed Rail - Merced to Fresno\AECOM\HYBRID\MF-CT-0032-A.dgn 4/3/2012 7:23:49 PM lros





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1032-A THROUGH CT1034-A.

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

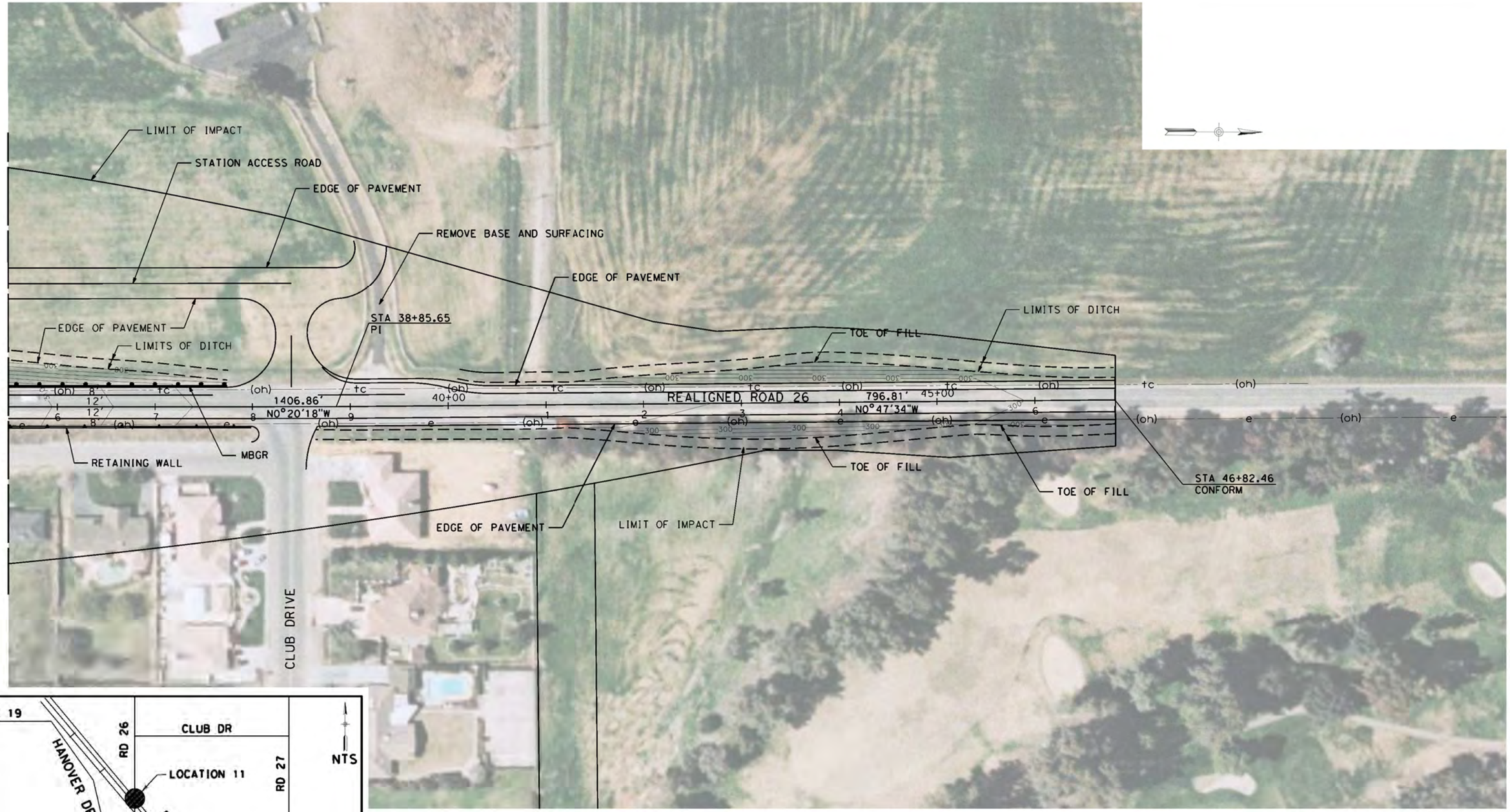
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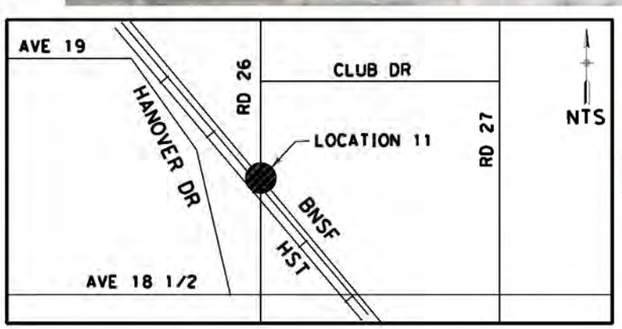
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

HYBRID MAIN LINE - (AVE 24 WYE)
GRADE SEPARATION - ROAD 26
LAYOUT
SHEET 2 OF 3

CONTRACT NO. HST06-007
DRAWING NO. CT0033-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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4/3/2012 7:24:50 PM
lros





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1032-A THROUGH CT1034-A.

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: R. GIBSON
DRAWN BY: H. PHAN
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

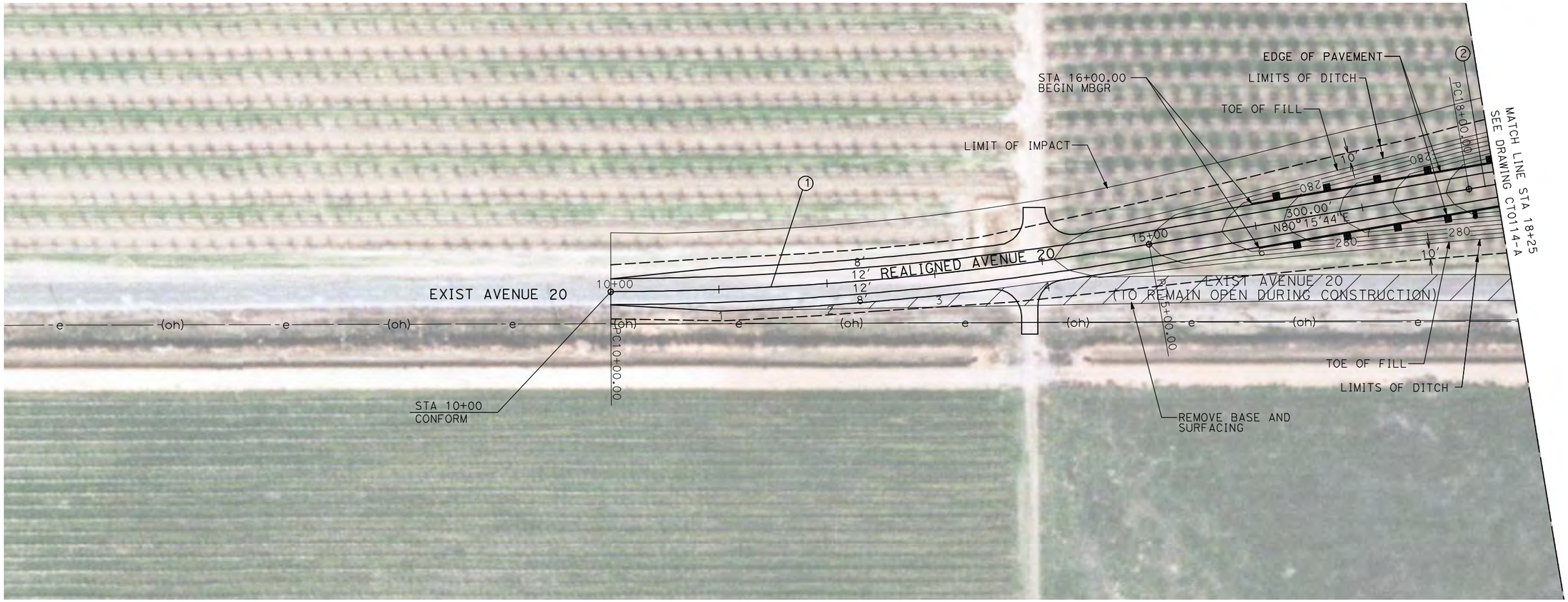
HYBRID MAIN LINE - (AVE 24 WYE)
GRADE SEPARATION - ROAD 26
LAYOUT
SHEET 3 OF 3

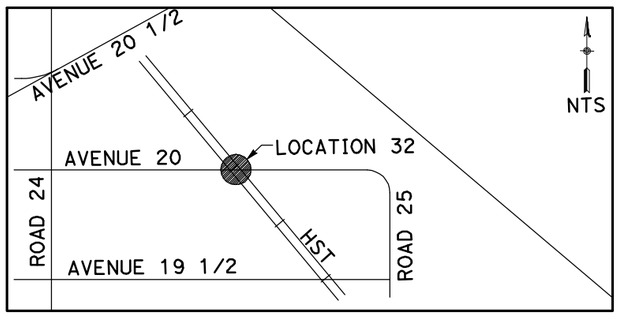
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SCALE AS SHOWN
SHEET NO. ### OF ###

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lros

CURVE DATA

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②	3000.00′	9°32′57"	250.58′	500.00′	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1113-A THROUGH CT1115-A.

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

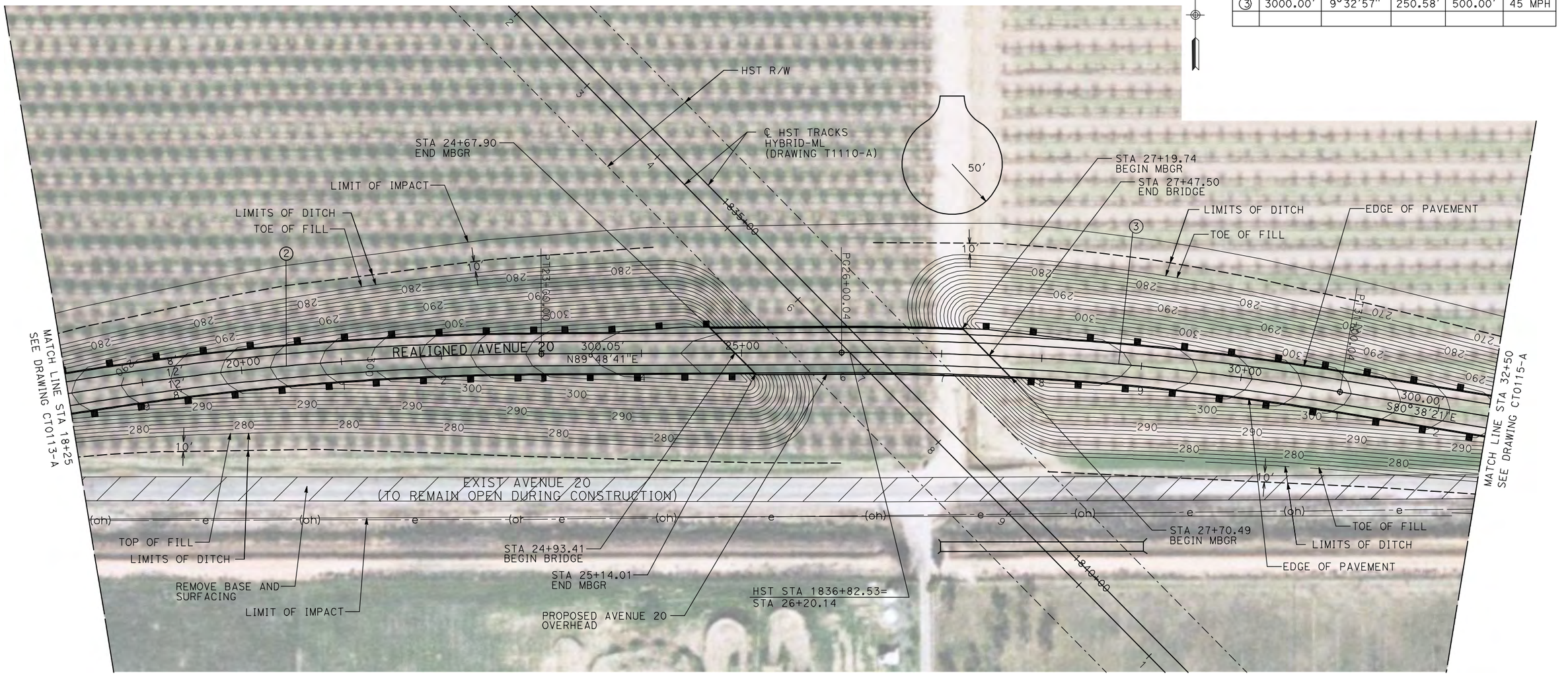
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 20
LAYOUT
SHEET 1 OF 3

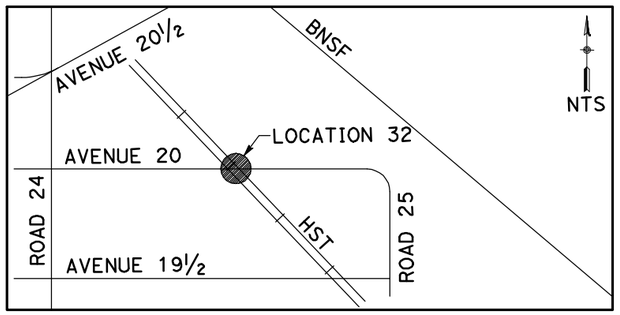
CONTRACT NO. HST06-007
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SCALE AS SHOWN
SHEET NO. ### OF ###

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GibsonR1

CURVE DATA

NO.	R	Δ	T	L	V
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③	3000.00′	9°32′57"	250.58′	500.00′	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1113-A THROUGH CT1115-A.

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

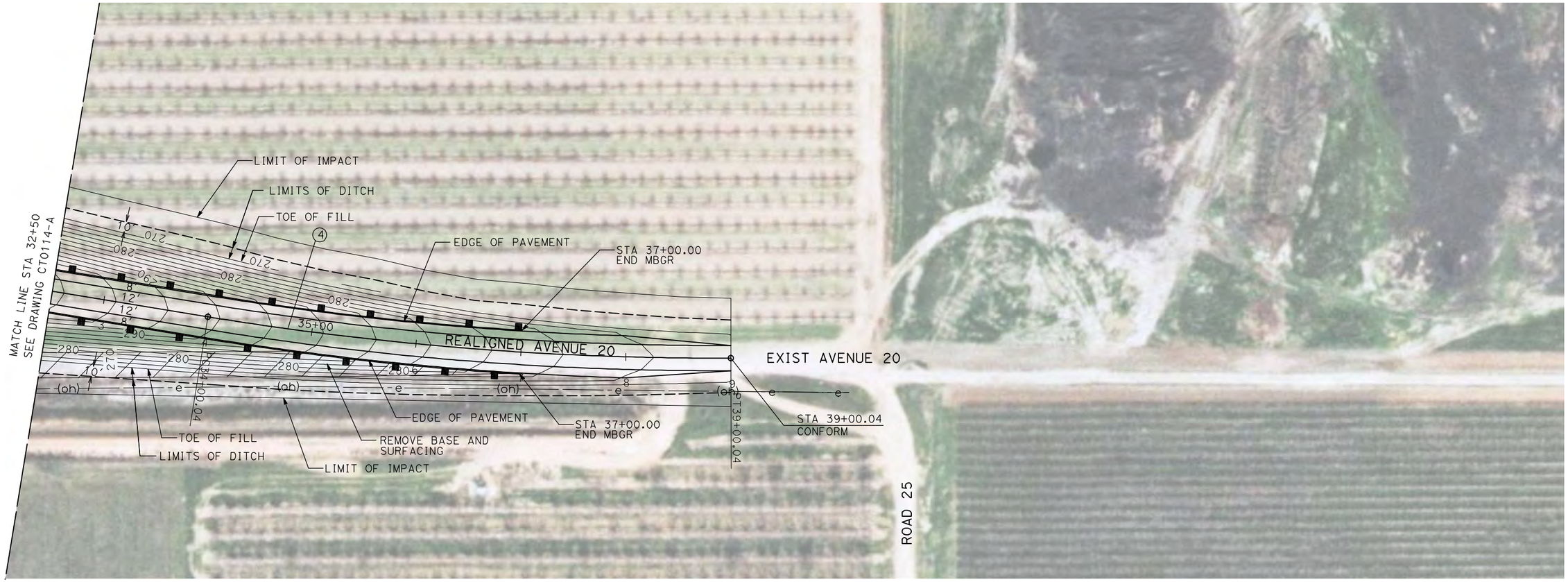
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 20
LAYOUT
SHEET 2 OF 3

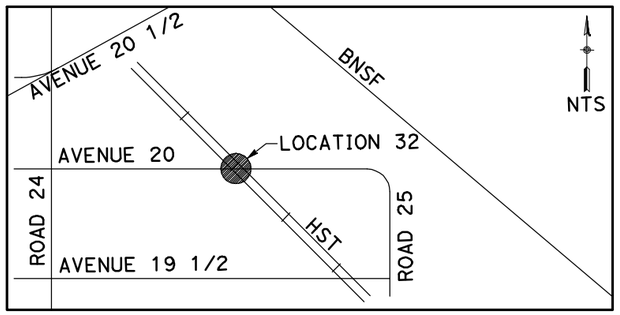
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GibsonR1

CURVE DATA

NO.	R	Δ	T	L	V
④	3000.00′	9°32′57″	250.58′	500.00′	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1113-A THROUGH CT1115-A.

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 20
LAYOUT
SHEET 3 OF 3

CONTRACT NO. HST06-007
DRAWING NO. CT0115-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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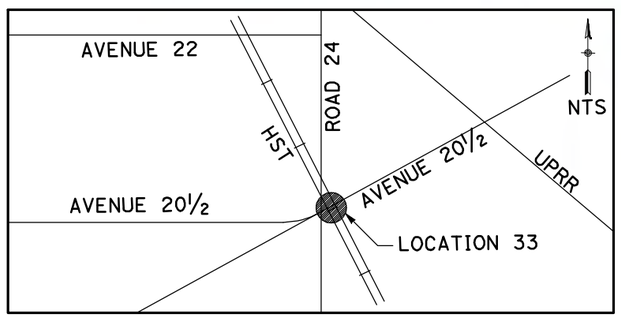
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GibsonR1

FOR ROAD 24 PLAN
SEE DRAWING CT0119-A

CURVE DATA

NO.	R	Δ	T	L	V
①	3000.00′	22°33′32"	598.34′	1181.18′	45 MPH
②	3000.00′	22°33′32"	598.34′	1181.18′	45 MPH
⑤	3000.00′	22°33′32"	598.34′	1181.18′	45 MPH

LIMITS OF DITCH
LIMITS OF DITCH
LIMITS OF DITCH
STA 15+00.00
END MBGR
R=25′
STA 29+00.00
BEGIN MBGR
REALIGNED ROAD 24
EXIST AVENUE 20 1/2
TO REMAIN OPEN DURING CONSTRUCTION)
MATCH LINE STA 30+25
SEE DRAWING CT0117-A
REALIGNED AVENUE 20 1/2
EDGE OF PAVEMENT
STA 20+00.00
CONFORM
EXIST AVENUE 20 1/2
PC21+95.50
CT21+32.31
LIMITS OF DITCH
STA 29+00.00
BEGIN MBGR
R=25′
PC21+16.30
EDGE OF PAVEMENT
LIMIT OF IMPACT
R=25′
R=25′
295.50′
N00°22′39"W
STA 10+00.00
CONFORM
POB10+00.00



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1116-A THROUGH CT1118-A.

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

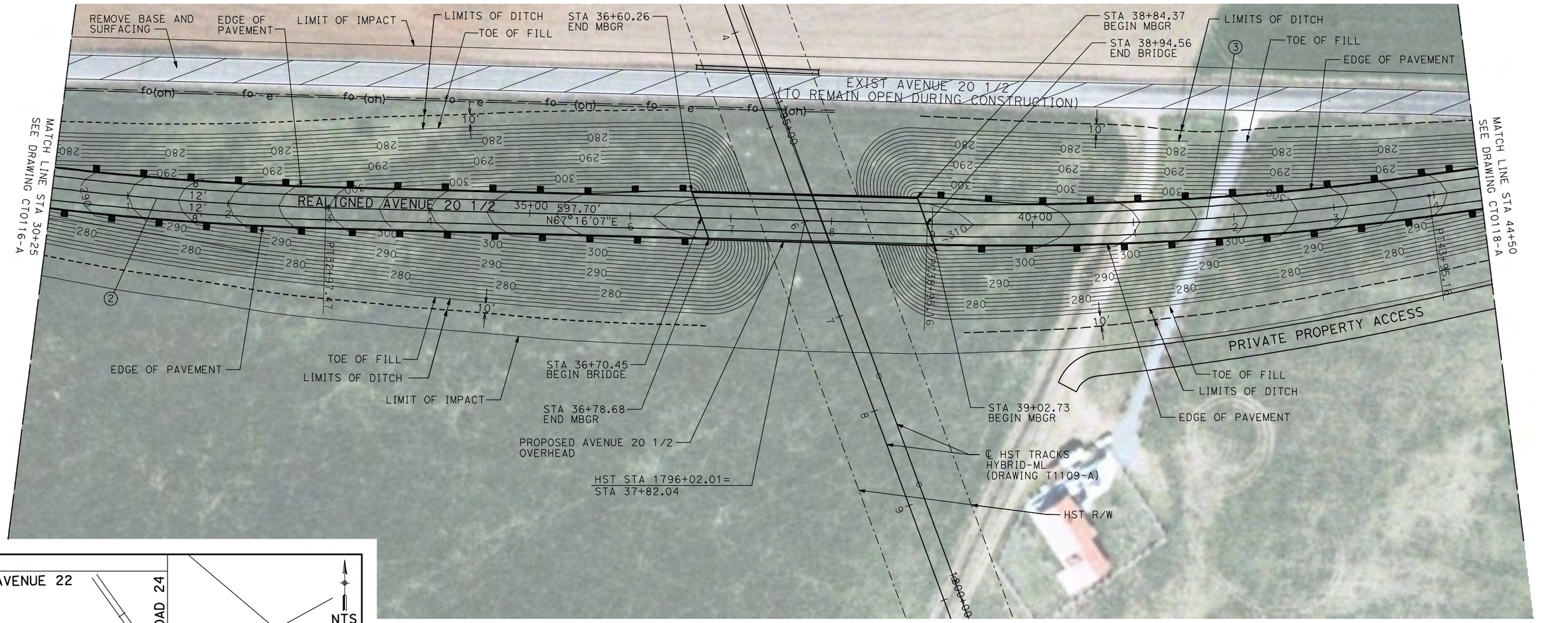
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

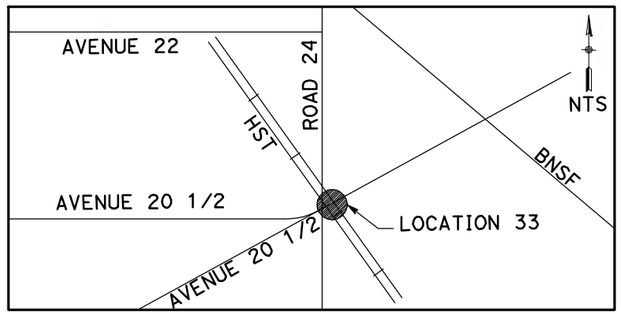
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 20 1/2
LAYOUT
SHEET 1 OF 3

CONTRACT NO. HST06-007
DRAWING NO. CT0116-A
SCALE AS SHOWN
SHEET NO. ### OF ###

CURVE DATA

NO.	R	Δ	T	L	V
②	3000.00′	22°33′32"	598.34′	1181.18′	45 MPH
③	3000.00′	9°32′57"	250.58′	500.00′	45 MPH
⑤	3000.00′	9°32′57"	250.58′	500.00′	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1116-A THROUGH CT1118-A.

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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Sacramento, CA 95811

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

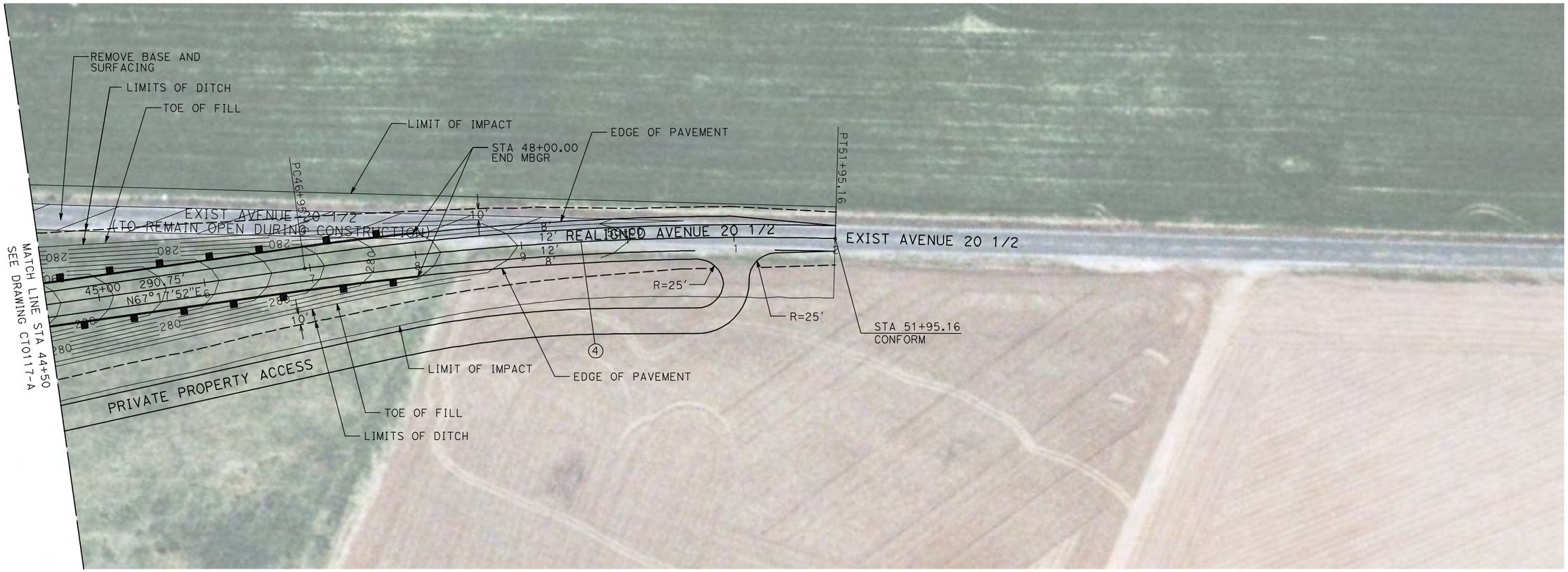
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 20 1/2
LAYOUT
SHEET 2 OF 3

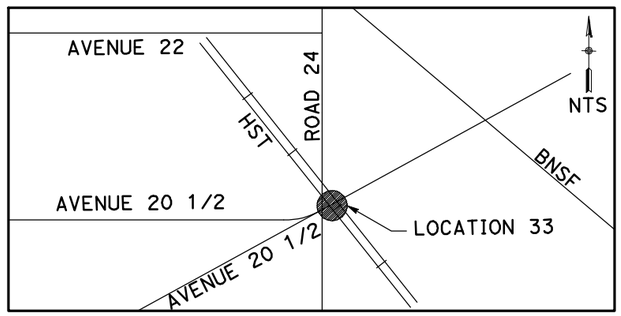
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GibsonR1

CURVE DATA

NO.	R	△	T	L	V
④	3000.00′	22°33′32"	598.34′	1181.18′	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1116-A THROUGH CT1118-A.

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL

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Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 20 1/2
LAYOUT
SHEET 3 OF 3

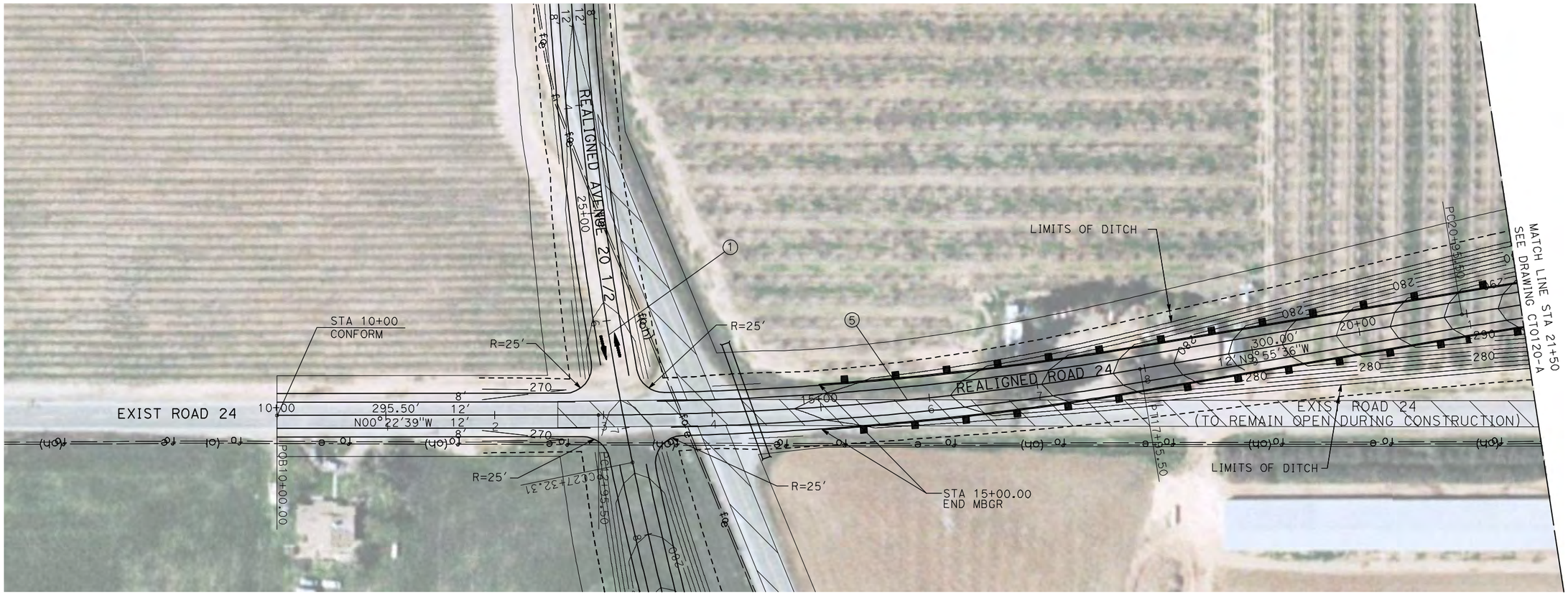
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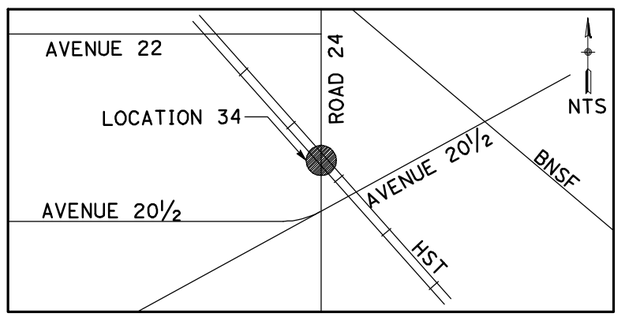
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GibsonR1

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5/1/2011 1:39:41 PM
GibsonR1

CURVE DATA

NO.	R	Δ	T	L	V
①	3000.00′	9°32′57"	250.58′	500.00′	45 MPH
⑤	3000.00′	9°32′57"	250.58′	500.00′	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1119-A THROUGH CT1121-A.

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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2020 L Street, Suite 300
Sacramento, CA 95811

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

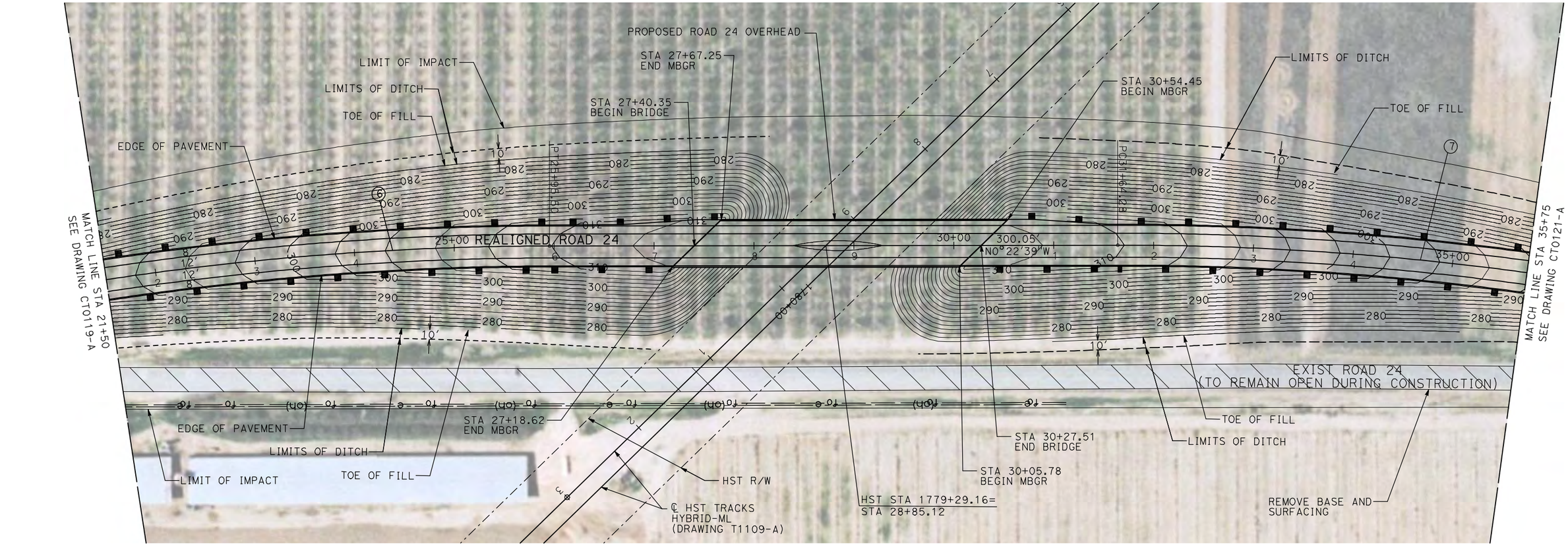
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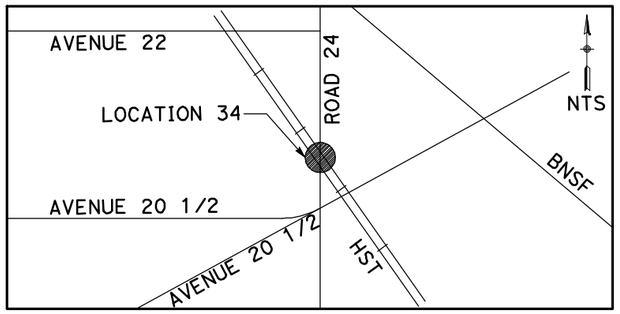
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 24
LAYOUT
SHEET 1 OF 3

CONTRACT NO. HST06-007
DRAWING NO. CT0119-A
SCALE AS SHOWN
SHEET NO. ### OF ###

CURVE DATA

NO.	R	Δ	T	L	V
⑥	3000.00′	9°32′57″	250.58′	500.00′	45 MPH
⑦	3000.00′	9°32′57″	250.58′	500.00′	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1119-A THROUGH CT1121-A.

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

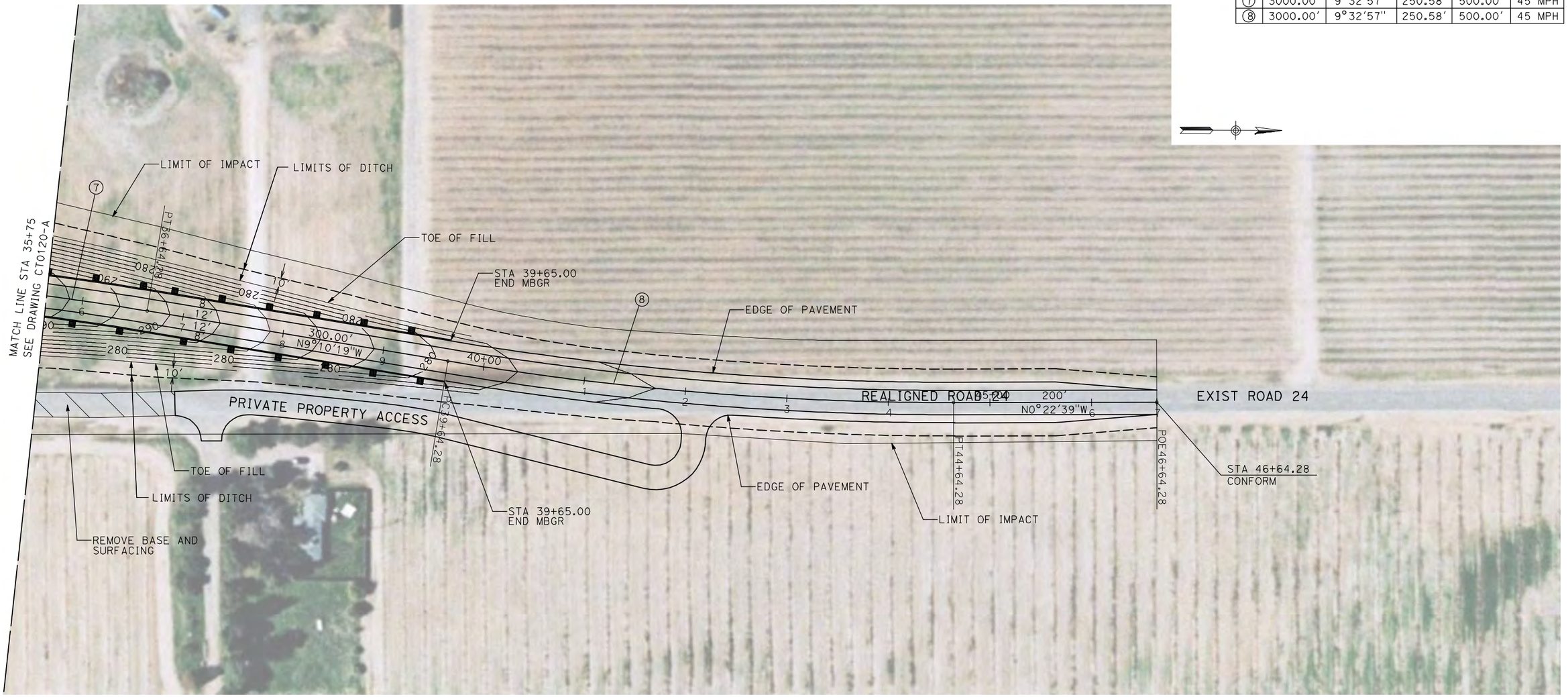
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 24
LAYOUT
SHEET 2 OF 3

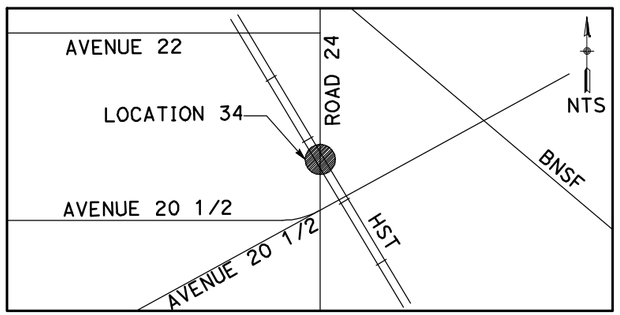
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DRAWING NO. CT0120-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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CURVE DATA

NO.	R	Δ	T	L	V
⑦	3000.00′	9°32′57″	250.58′	500.00′	45 MPH
⑧	3000.00′	9°32′57″	250.58′	500.00′	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1119-A THROUGH CT1121-A.

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 24
LAYOUT
SHEET 3 OF 3

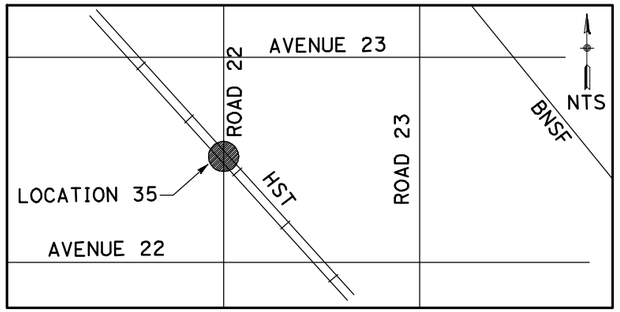
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SCALE AS SHOWN
SHEET NO. ### OF ###

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CURVE DATA

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②	3000.00′	9°32′57"	250.58′	500.00′	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1122-A THROUGH CT1124-A.

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

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2020 L Street, Suite 300
Sacramento, CA 95811

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

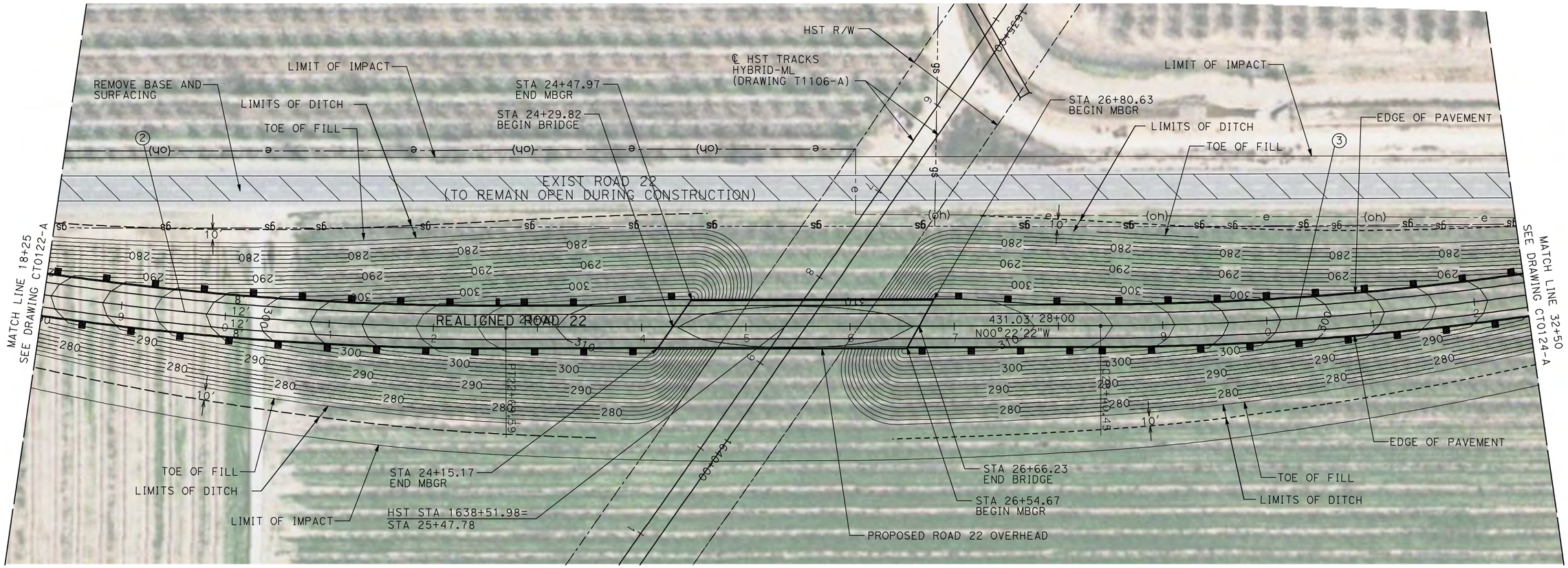
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 22
LAYOUT
SHEET 1 OF 3

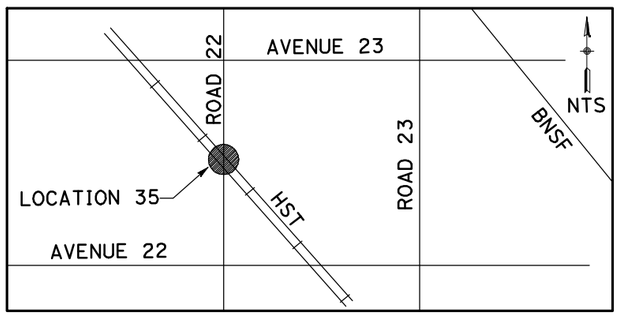
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GibsonR1

CURVE DATA

NO.	R	Δ	T	L	V
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③	3000.00′	9°32′57″	250.58′	500.00′	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1122-A THROUGH CT1124-A.

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

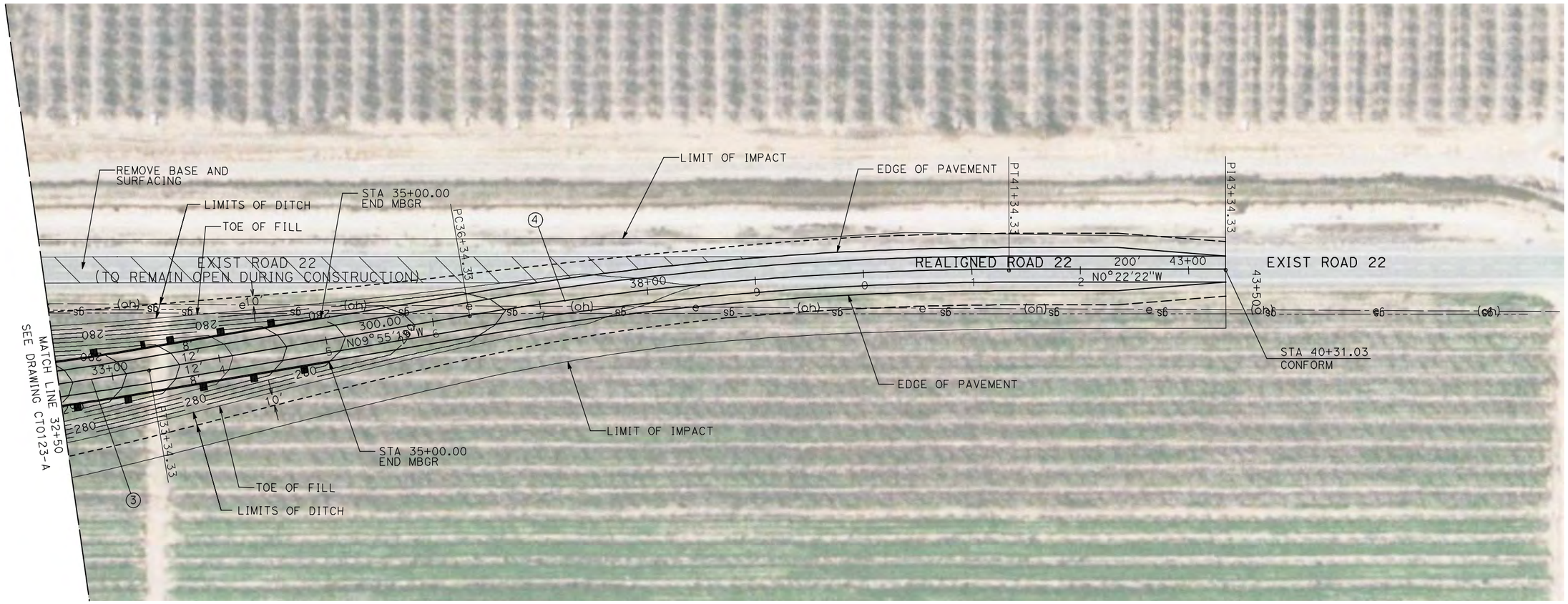
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 22
LAYOUT
SHEET 2 OF 3

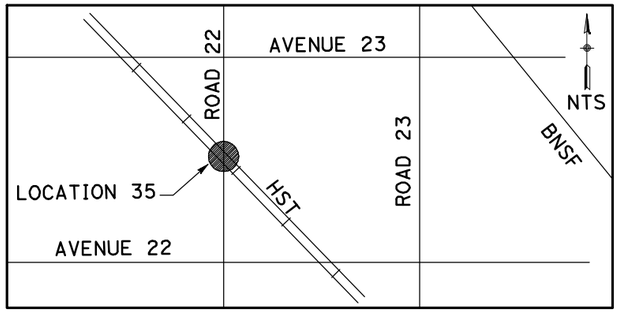
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DRAWING NO. CT0123-A
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SHEET NO. ### OF ###

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GibsonR1

CURVE DATA

NO.	R	Δ	T	L	V
③	3000.00′	9°32′57″	250.58′	500.00′	45 MPH
④	3000.00′	9°32′57″	250.58′	500.00′	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1122-A THROUGH CT1124-A.

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

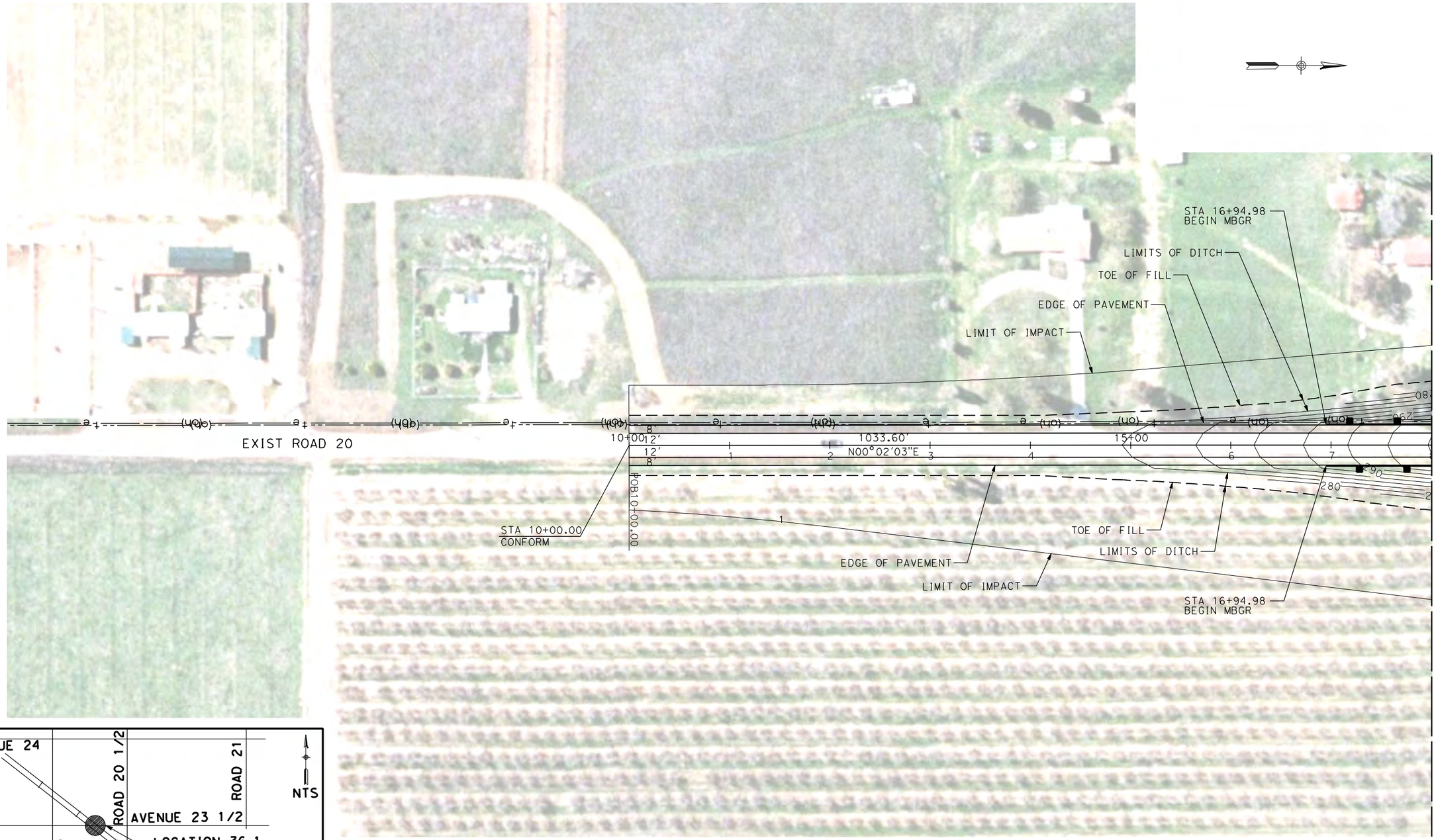
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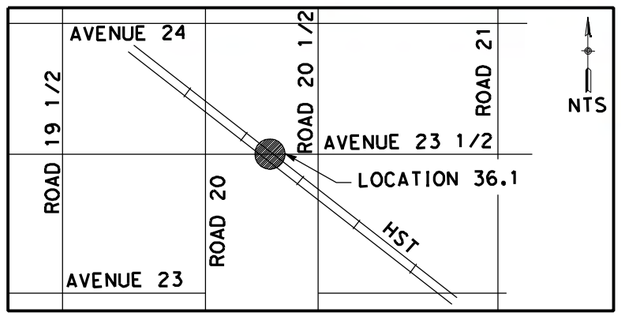
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 22
LAYOUT
SHEET 3 OF 3

CONTRACT NO. HST06-007
DRAWING NO. CT0124-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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GibsonR1

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2/3/2012 10:37:42 AM
DeMarcoF





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1125.1-A THROUGH CT1127.1-A.

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 07/27/2011

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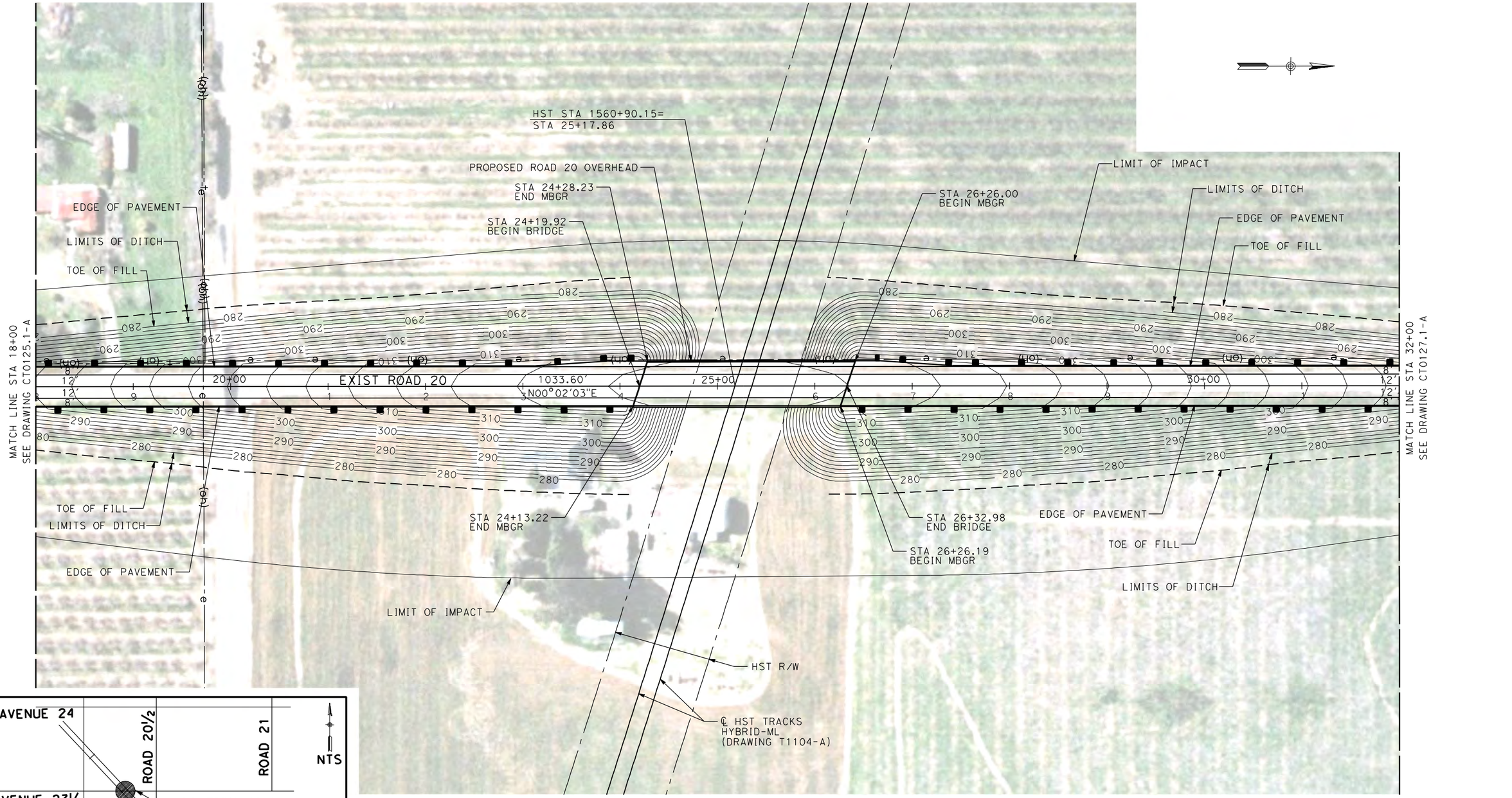
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

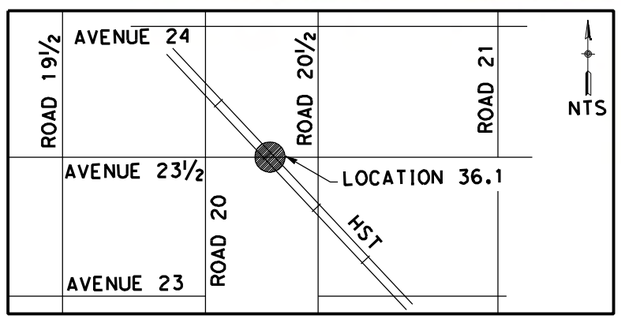
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 20
LAYOUT
SHEET 1 OF 3

CONTRACT NO. HST06-007
DRAWING NO. CT0125.1-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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2/3/2012 10:51:06 AM DeMarcoF





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1125.1-A THROUGH CT1127.1-A.

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

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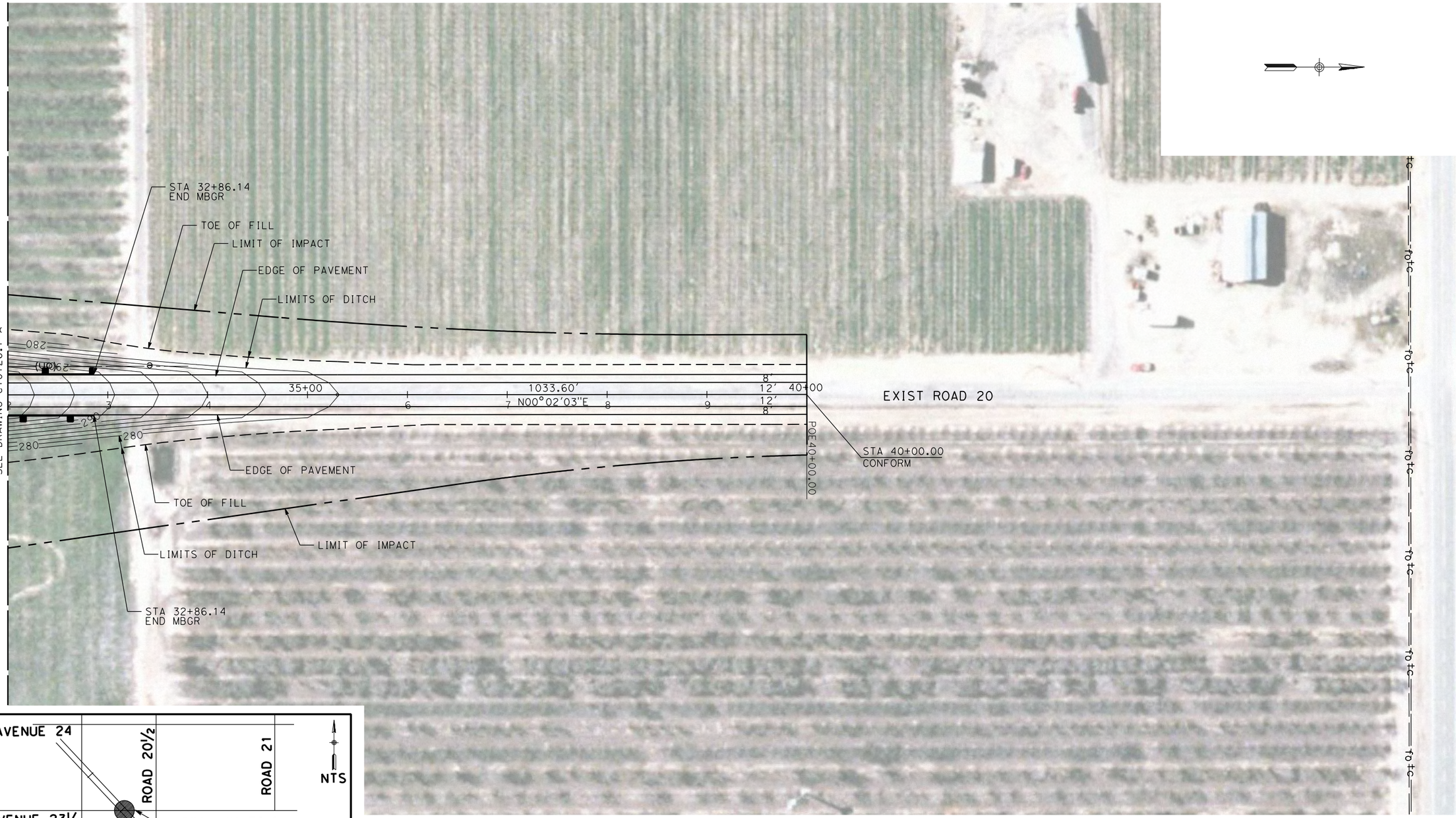
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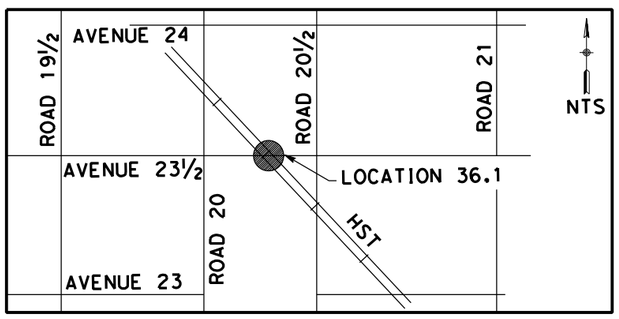
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 20
LAYOUT
SHEET 2 OF 3

CONTRACT NO. HST06-007
DRAWING NO. CT0126.1-A
SCALE AS SHOWN
SHEET NO. ### OF ###

4/5/2012 11:23:22 AM \\usscr1fp001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\500 Submittals\501 In Progress Draft Submittal\501.1 Deliverable 1\Volume III APRIL 2012\PART 1\K1\PER CH COMMENTS\





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1125.1-A THROUGH CT1127.1-A.

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DeMarcoF

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DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
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2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

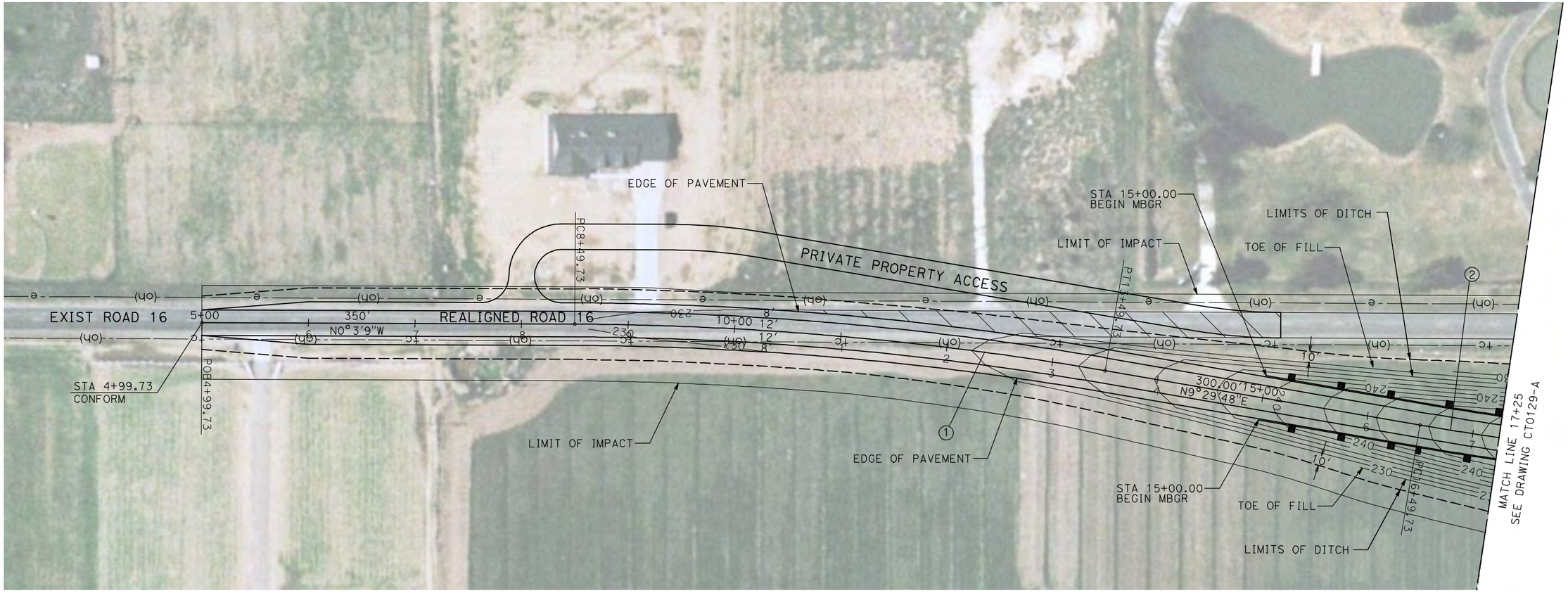
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MERCED TO FRESNO

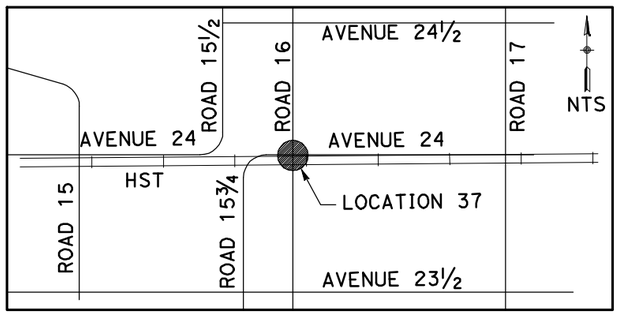
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GRADE SEPARATION - ROAD 20
LAYOUT
SHEET 3 OF 3

CONTRACT NO. HST06-007
DRAWING NO. CT0127.1-A
SCALE AS SHOWN
SHEET NO. ### OF ###

CURVE DATA

NO.	R	Δ	T	L	V
①	3000.00′	9°32′57″	250.58′	500.00′	45 MPH
②	3000.00′	9°32′57″	250.58′	500.00′	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1128-A THROUGH CT1130-A.

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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Sacramento, CA 95811

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

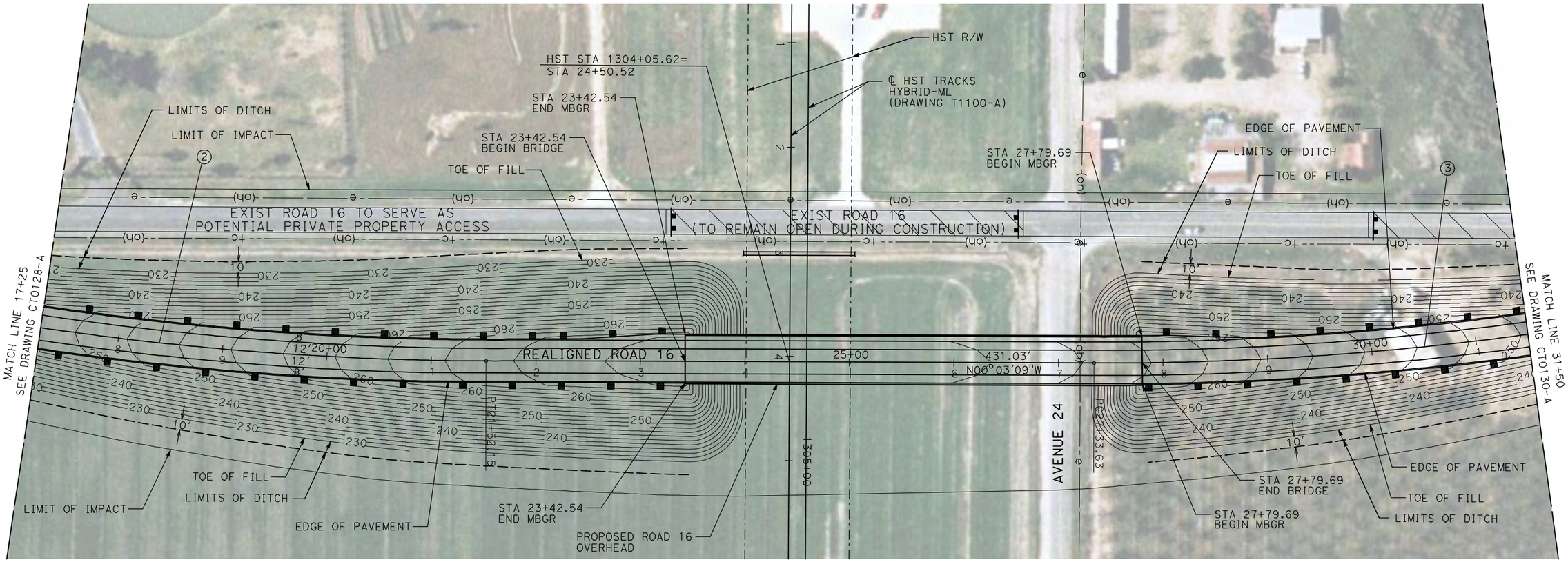
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 16
LAYOUT
SHEET 1 OF 3

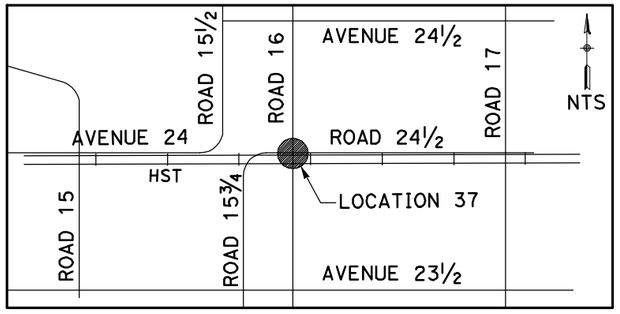
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GibsonR1

CURVE DATA

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②	3000.00′	9°32′57"	250.58′	500.00′	45 MPH
③	3000.00′	9°32′57"	250.58′	500.00′	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1128-A THROUGH CT1130-A.

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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Sacramento, CA 95811

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

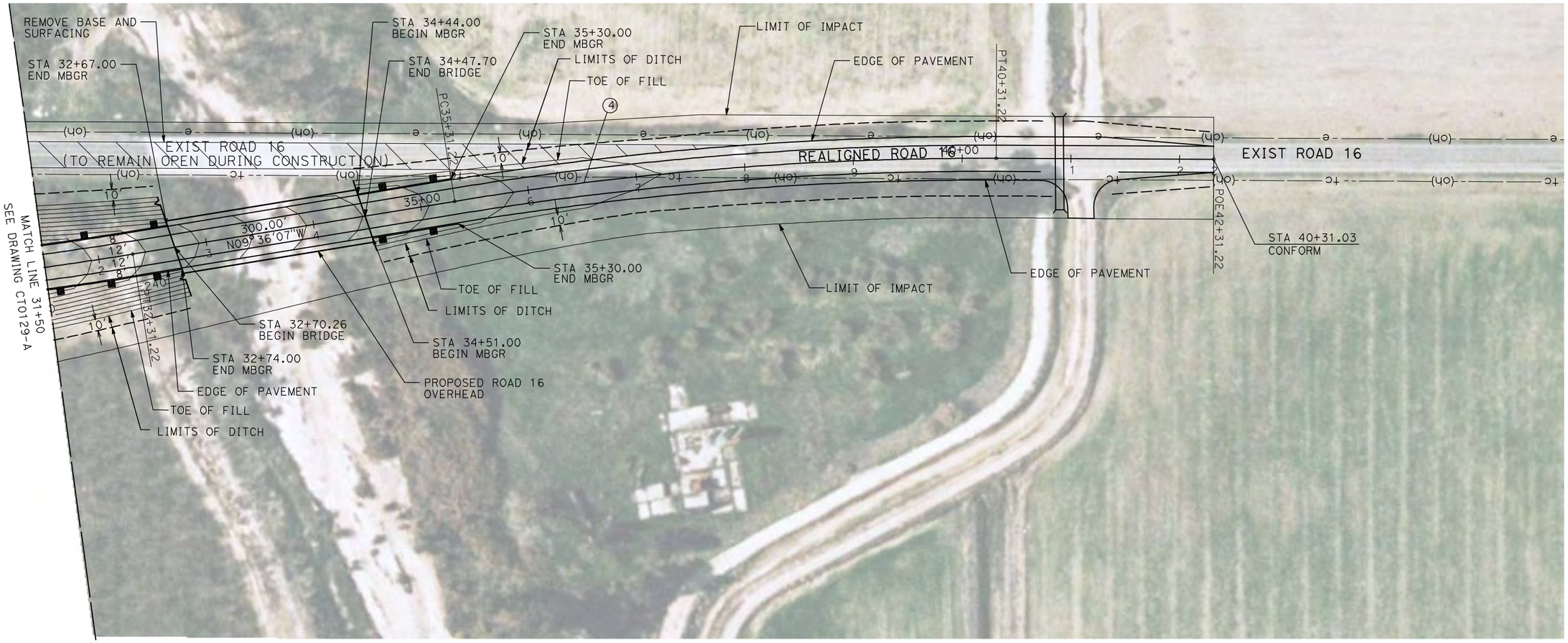
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 16
LAYOUT
SHEET 2 OF 3

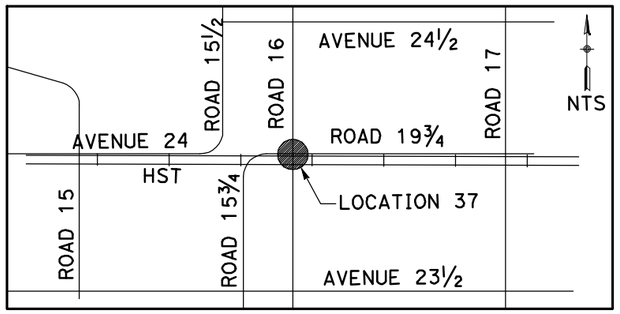
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GibsonR1

CURVE DATA

NO.	R	Δ	T	L	V
④	3000.00′	9°32′57″	250.58′	500.00′	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1128-A THROUGH CT1130-A.

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL

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Sacramento, CA 95811
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

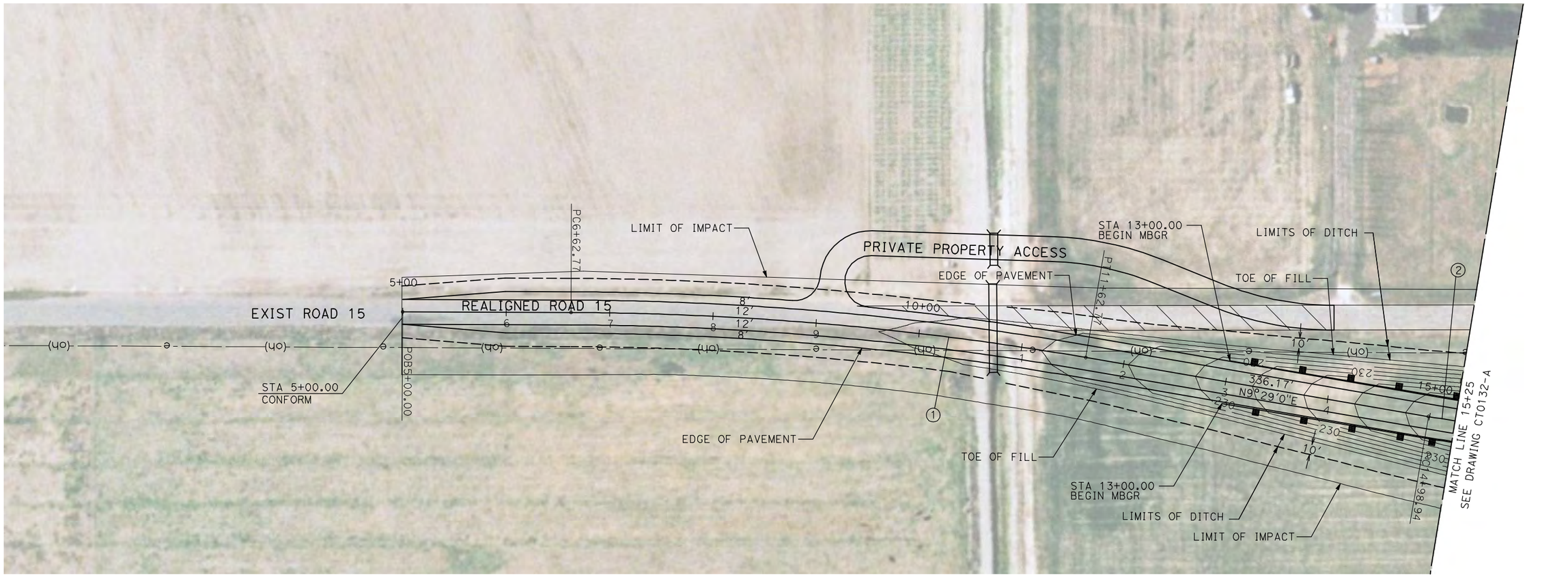
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 16
LAYOUT
SHEET 3 OF 3

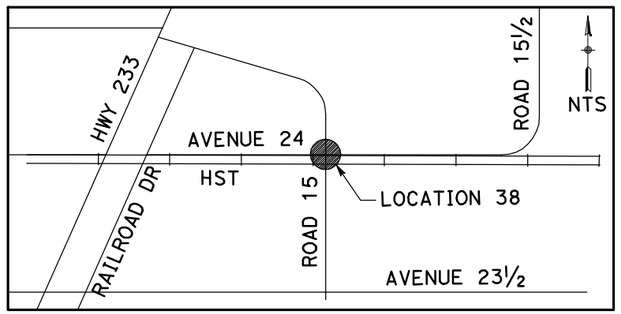
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CURVE DATA

NO.	R	Δ	T	L	V
①	3000.00′	9°32′57"	250.58′	500.00′	45 MPH
②	3000.00′	9°32′57"	250.58′	500.00′	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1131-A THROUGH CT1133-A.

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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Sacramento, CA 95811

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

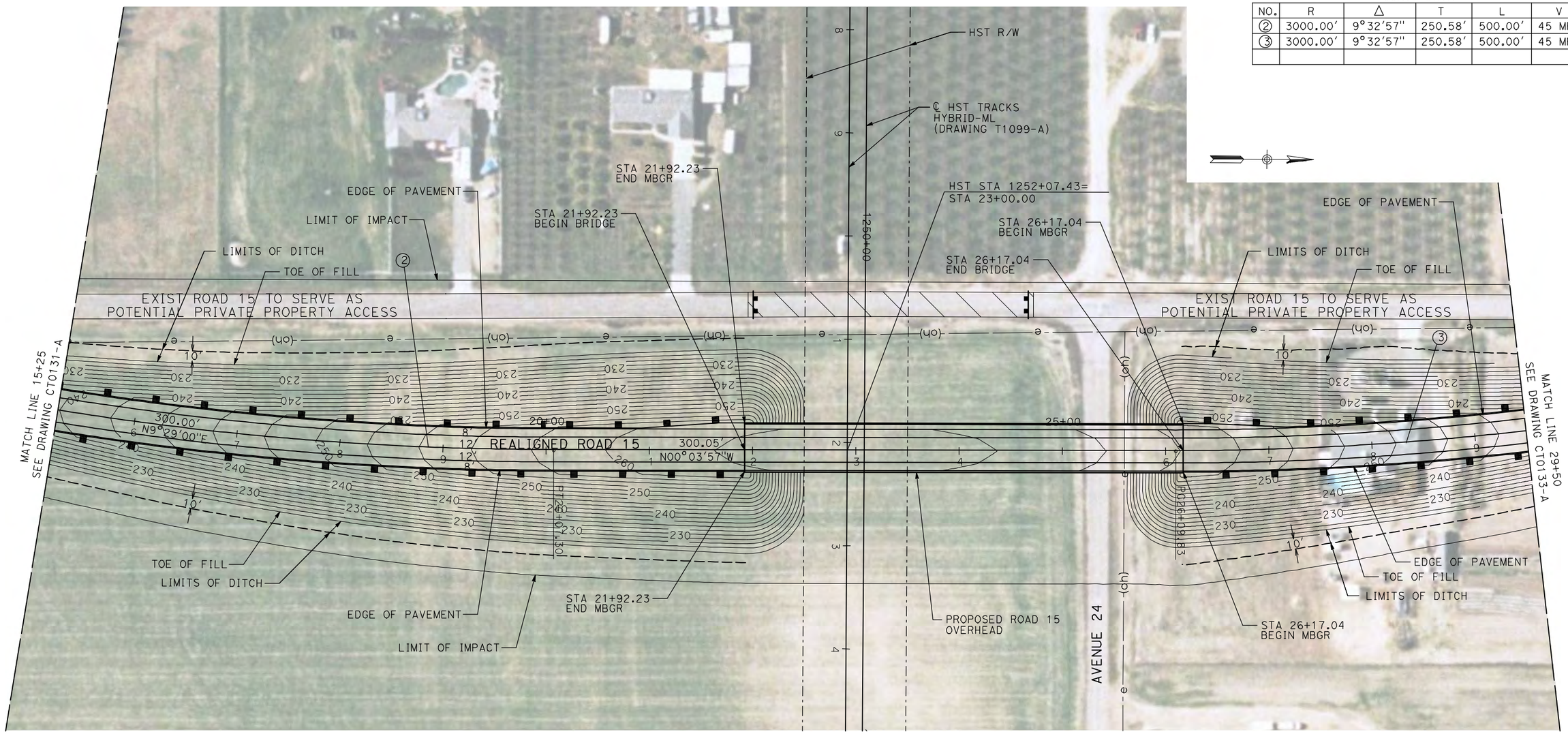
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 15
LAYOUT
SHEET 1 OF 3

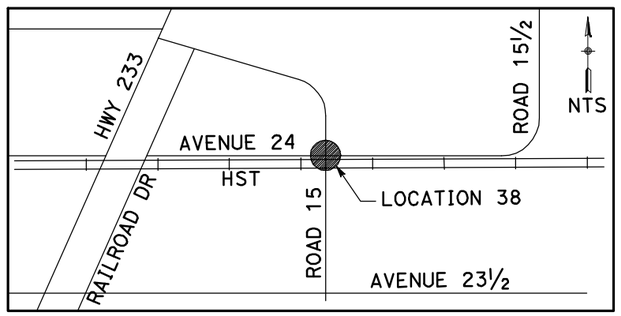
CONTRACT NO. HST06-007
DRAWING NO. CT0131-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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5/1/2011 1:41:10 PM GibsonR1

CURVE DATA

NO.	R	Δ	T	L	V
②	3000.00′	9°32′57″	250.58′	500.00′	45 MPH
③	3000.00′	9°32′57″	250.58′	500.00′	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1131-A THROUGH CT1133-A.

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

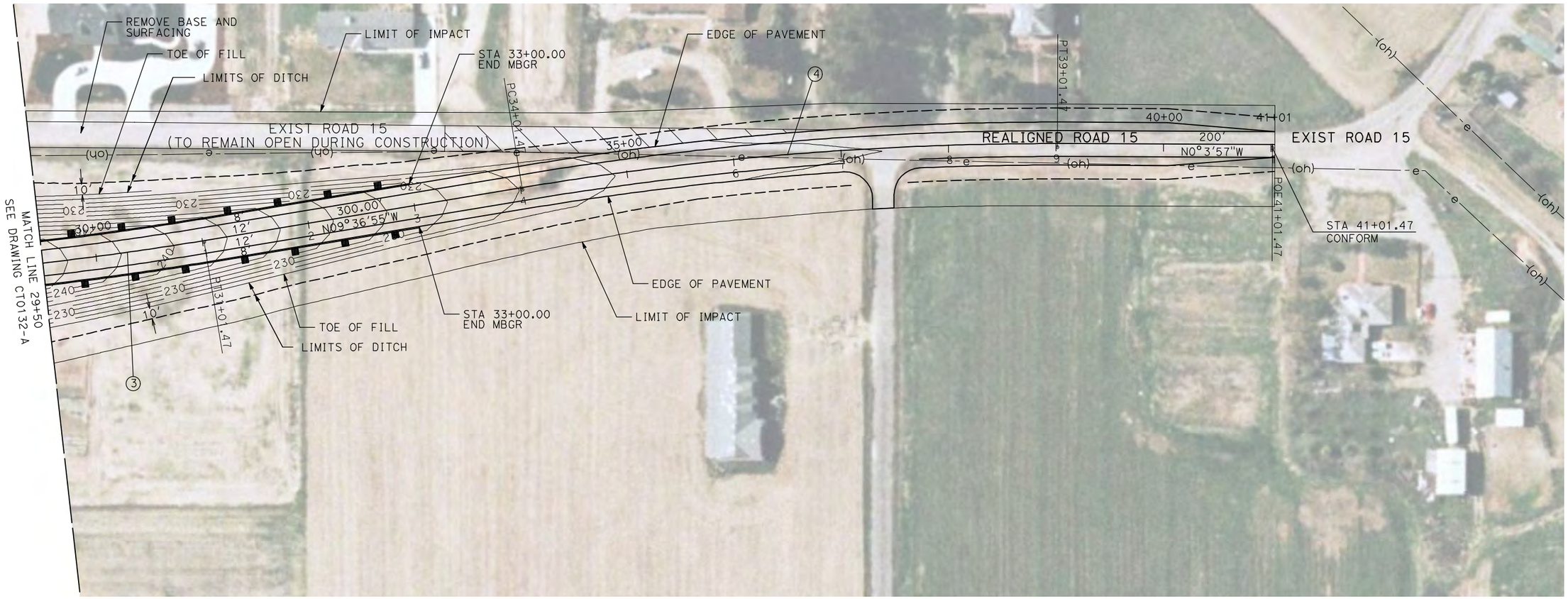
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 15
LAYOUT
SHEET 2 OF 3

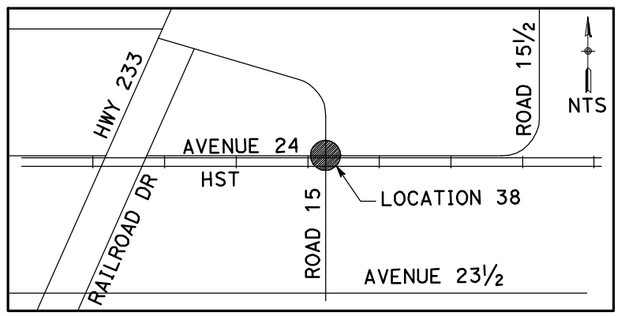
CONTRACT NO. HST06-007
DRAWING NO. CT0132-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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5/1/2011 1:41:17 PM
GibsonR1

CURVE DATA

NO.	R	Δ	T	L	V
③	3000.00′	9°32′57"	250.58′	500.00′	45 MPH
④	3000.00′	9°32′57"	250.58′	500.00′	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1131-A THROUGH CT1133-A.

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

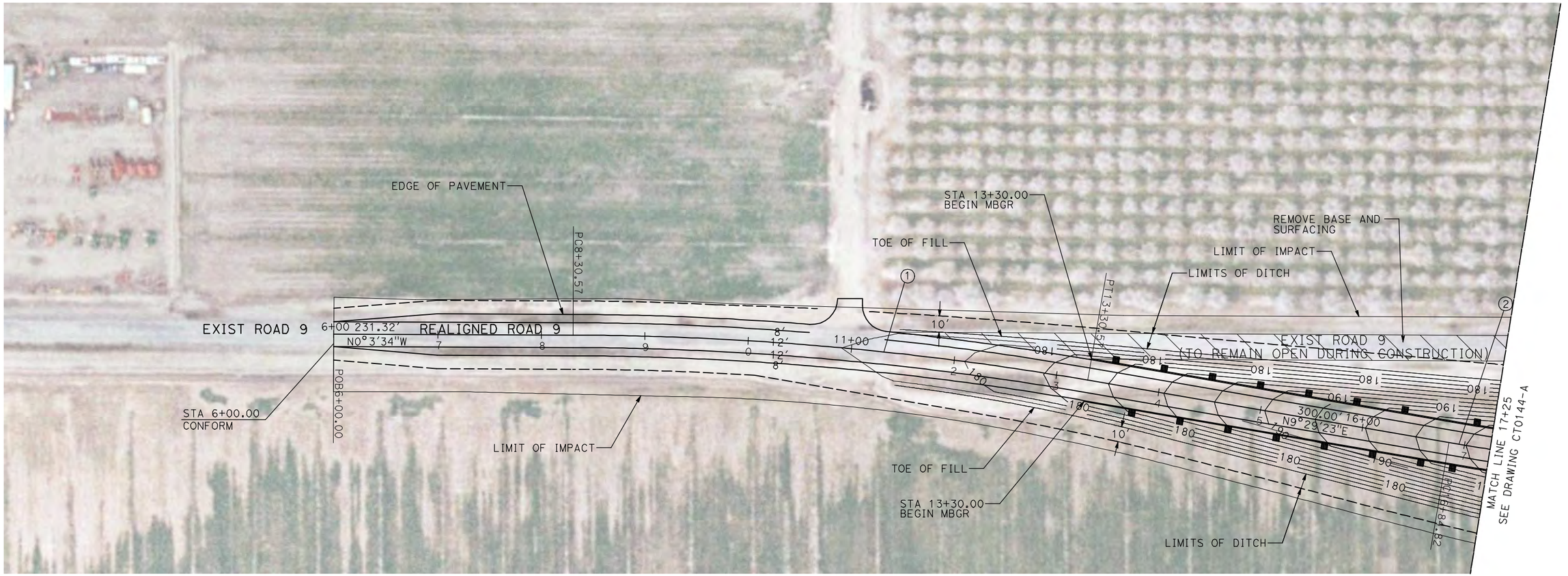
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 15
LAYOUT
SHEET 3 OF 3

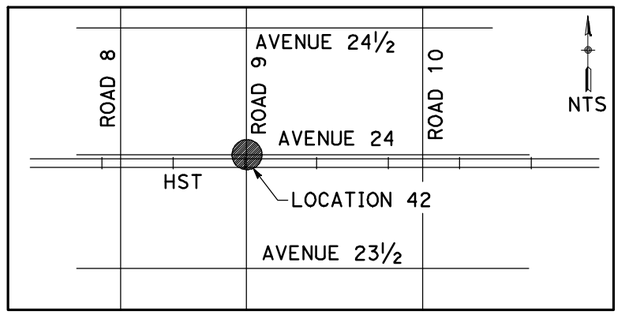
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DRAWING NO. CT0133-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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CURVE DATA

NO.	R	Δ	T	L	V
①	3000.00′	9°32′57″	250.58′	500.00′	45 MPH
②	3000.00′	9°32′57″	250.58′	500.00′	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1143-A THROUGH CT1145-A.

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

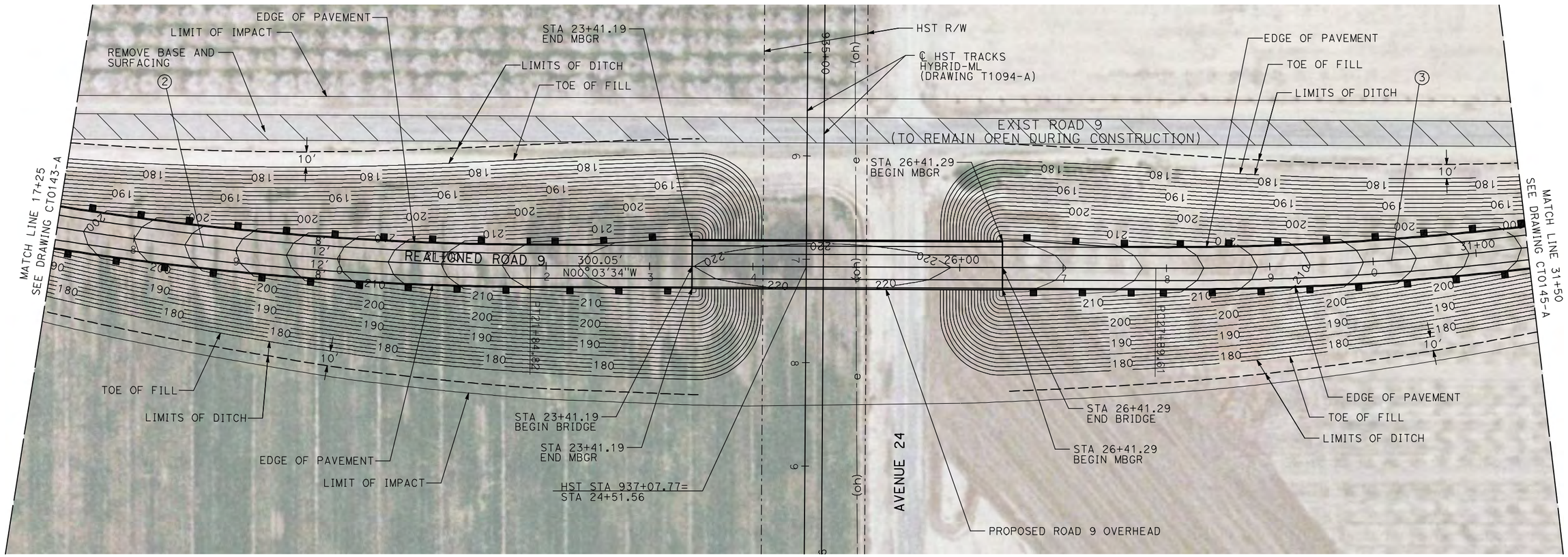
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 9
LAYOUT
SHEET 1 OF 3

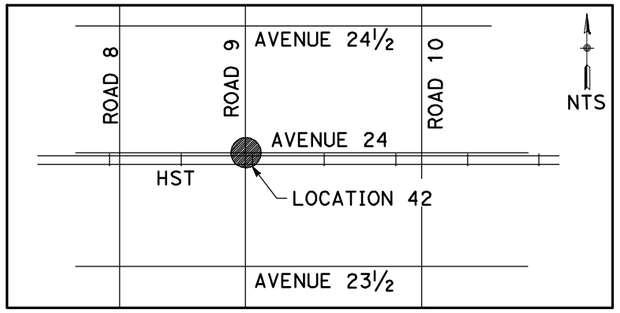
CONTRACT NO. HST06-007
DRAWING NO. CT0143-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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5/1/2011 1:41:37 PM
GibsonR1

CURVE DATA

NO.	R	Δ	T	L	V
②	3000.00′	9°32′57"	250.58′	500.00′	45 MPH
③	3000.00′	9°32′57"	250.58′	500.00′	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1143-A THROUGH CT1145-A.

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

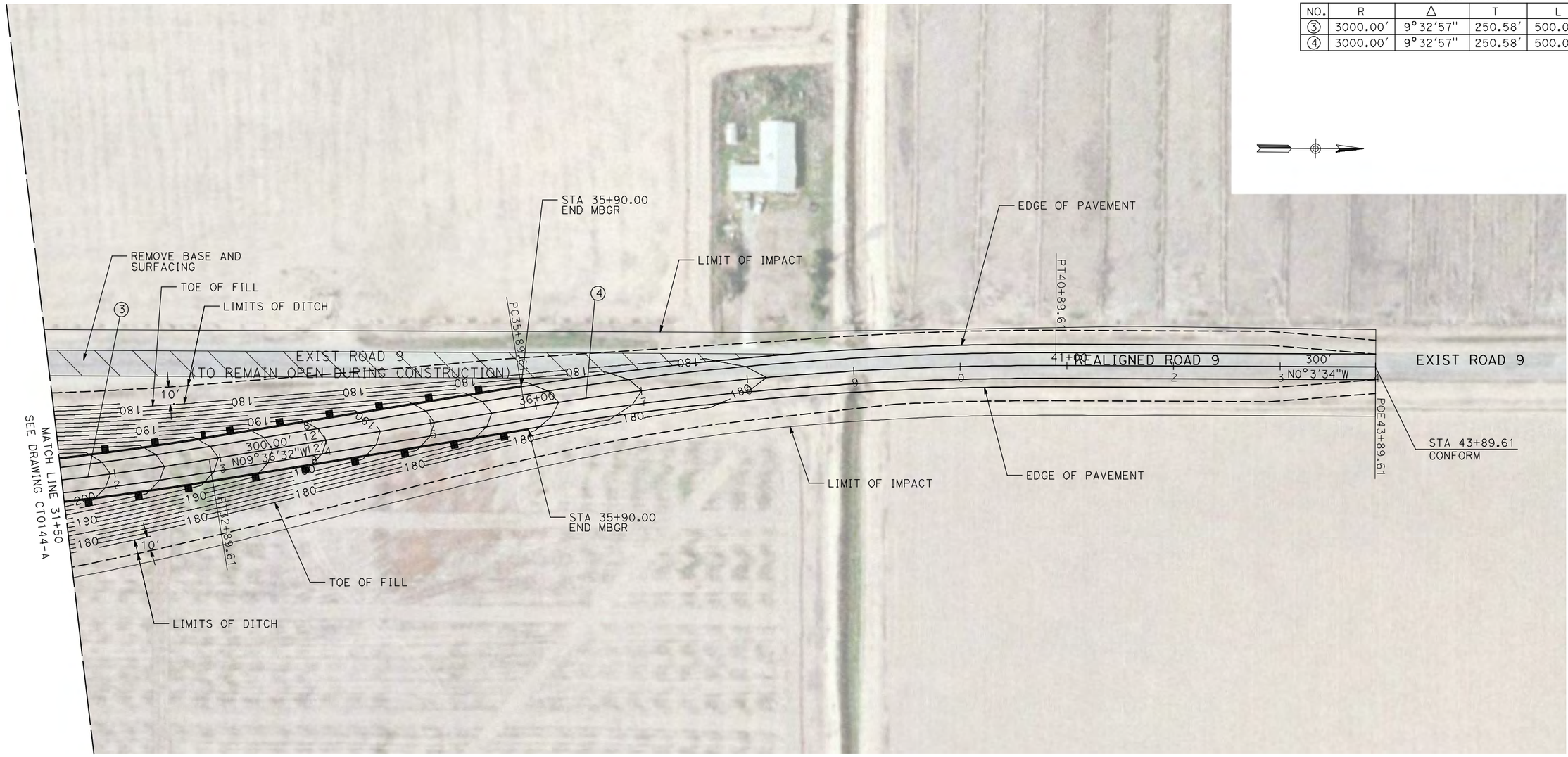
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 9
LAYOUT
SHEET 2 OF 3

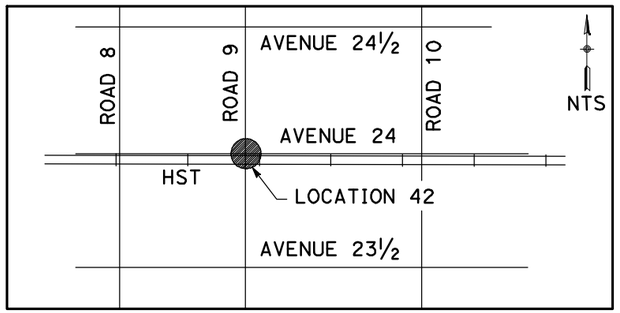
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DRAWING NO. CT0144-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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GibsonR1

CURVE DATA

NO.	R	Δ	T	L	V
③	3000.00′	9°32′57"	250.58′	500.00′	45 MPH
④	3000.00′	9°32′57"	250.58′	500.00′	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1143-A THROUGH CT1145-A.

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

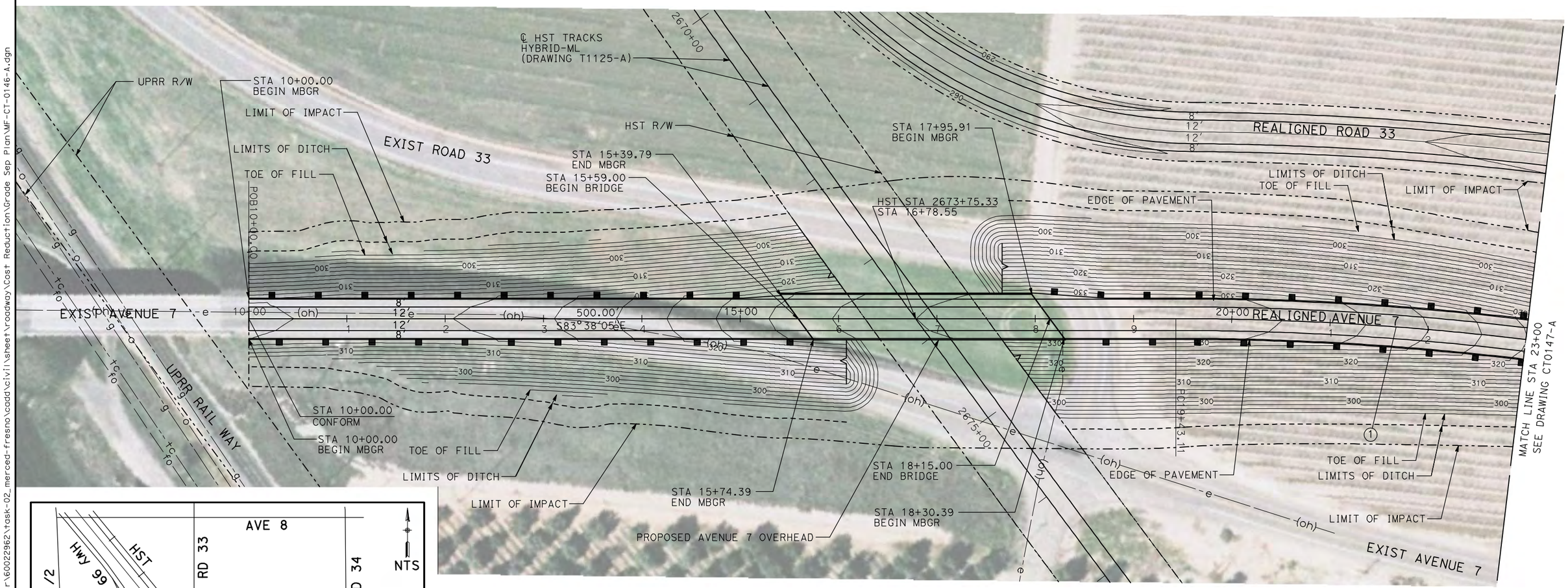
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 9
LAYOUT
SHEET 3 OF 3

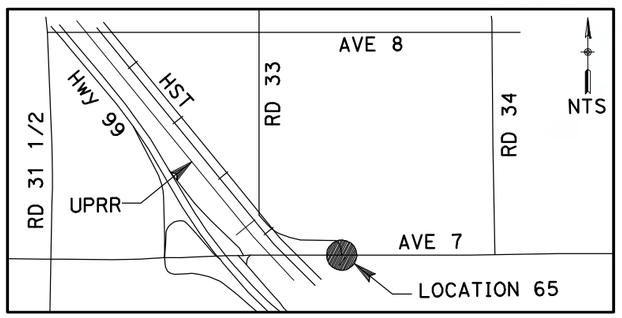
CONTRACT NO. HST06-007
DRAWING NO. CT0145-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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GibsonR1

CURVE DATA

NO.	R	Δ	T	L	V
①	5000.00′	6°52′32"	300.36′	600.00′	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1146-A THROUGH CT1148-A.

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

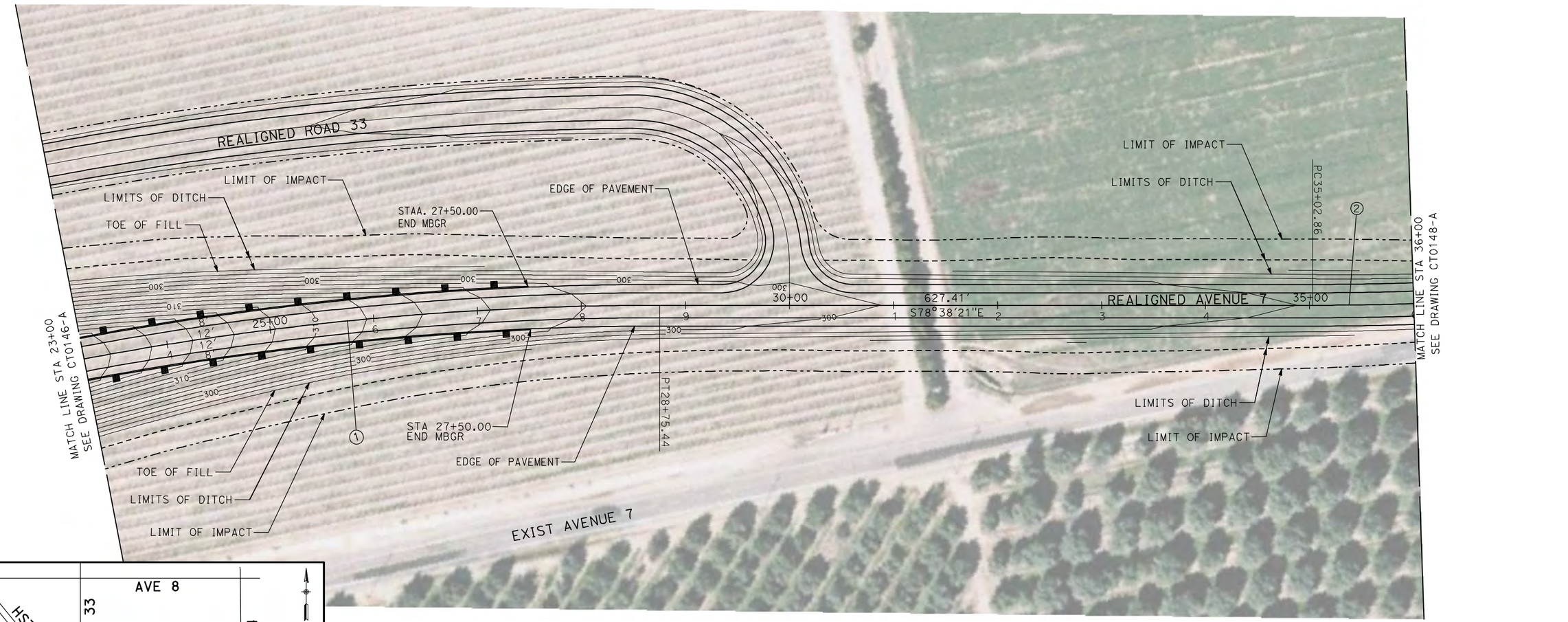
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAINLINE - HYBRID
GRADE SEPARATION - AVENUE 7
LAYOUT
SHEET 1 OF 3

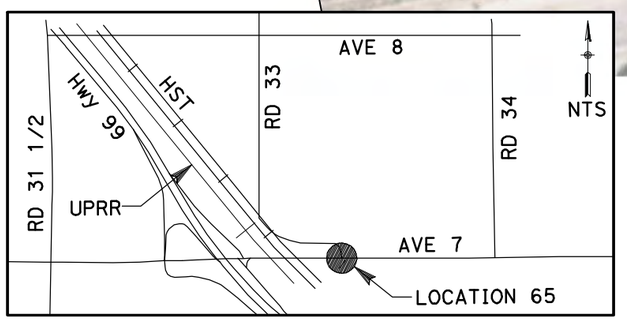
CONTRACT NO. HST06-007
DRAWING NO. CT0146-A
SCALE AS SHOWN
SHEET NO. OF ###

5/1/2011 1:46:47 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\Cost Reduction\Grade Sep Plan\MF-CT-0146-A.dgn GibsonR1

CURVE DATA

NO.	R	Δ	T	L	V
①	5000.00′	6°52′32"	300.36′	600.00′	45 MPH
②	3000.00′	12°10′29"	319.93′	637.46′	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1146-A THROUGH CT1148-A.

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAINLINE - HYBRID
GRADE SEPARATION - AVENUE 7
LAYOUT
SHEET 2 OF 3

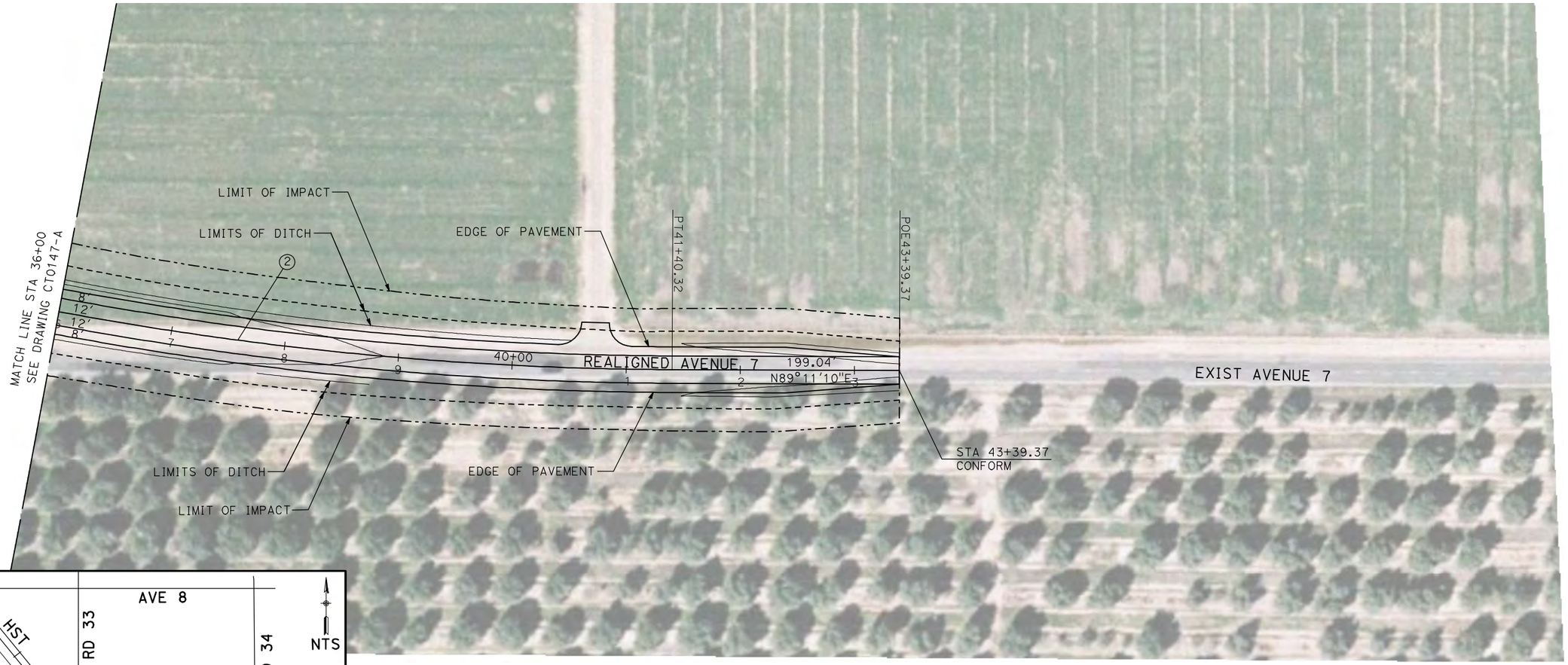
CONTRACT NO. HST06-007
DRAWING NO. CT0147-A
SCALE AS SHOWN
SHEET NO. OF ###

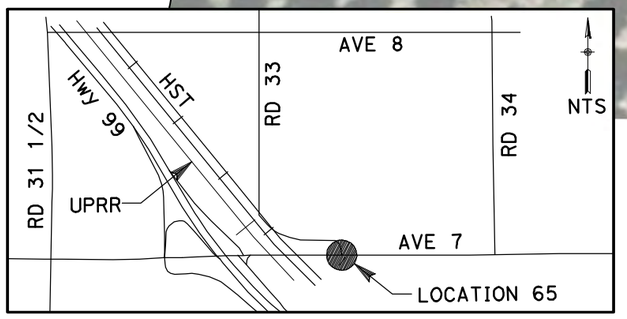
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GibsonR1

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5/1/2011 1:47:04 PM
GibsonR1

CURVE DATA

NO.	R	Δ	T	L	V
②	5000.00′	6°52′32"	300.36′	600.00′	45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1146-A THROUGH CT1148-A.

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

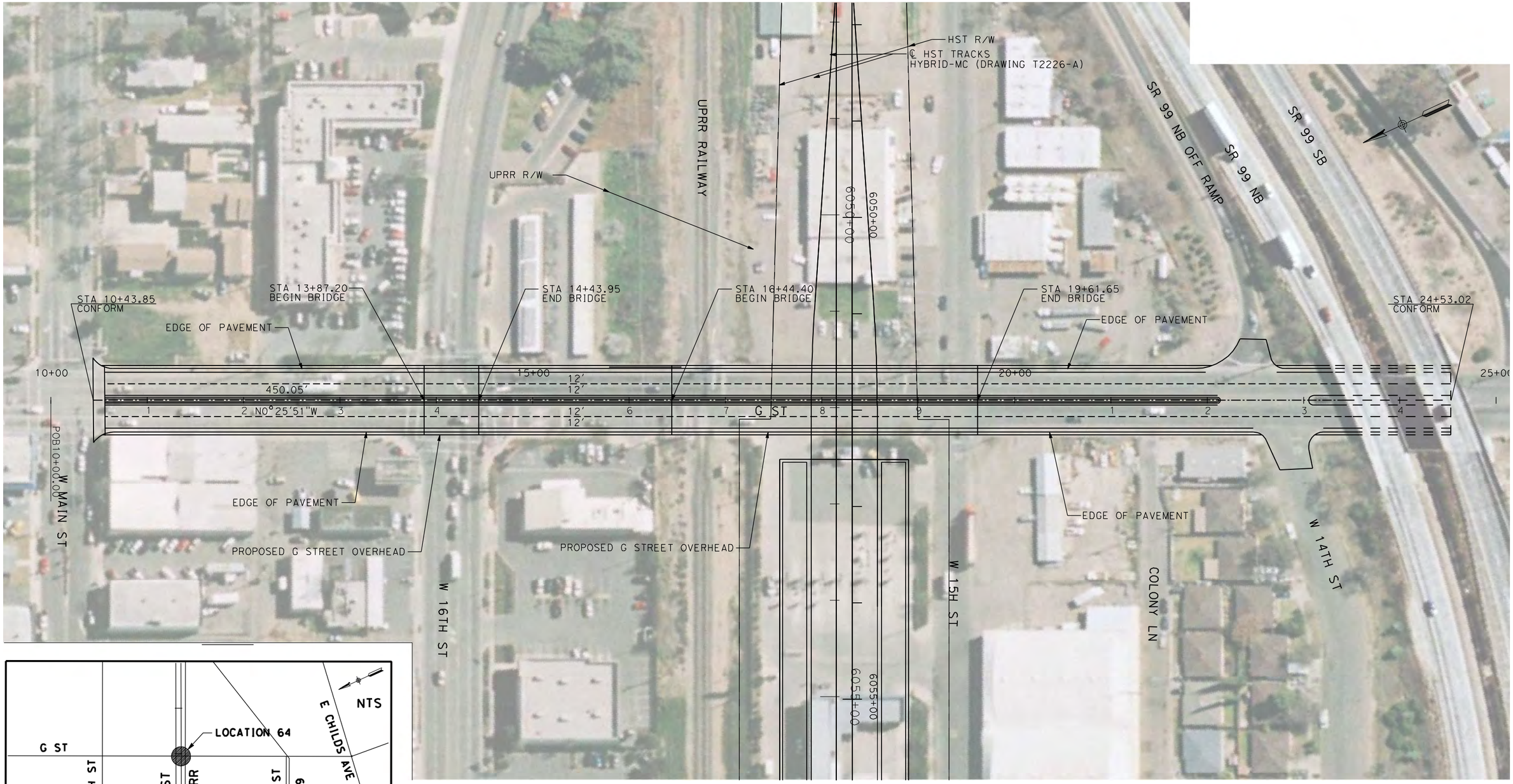
CH2MHILL

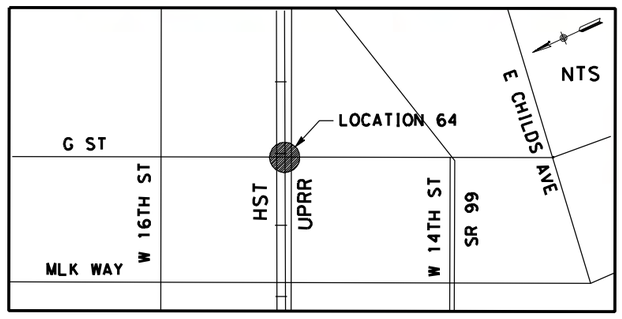
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAINLINE - HYBRID
GRADE SEPARATION - AVENUE 7
LAYOUT
SHEET 3 OF 3

CONTRACT NO. HST06-007
DRAWING NO. CT0148-A
SCALE AS SHOWN
SHEET NO. OF ###





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWING CT1149-A.

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

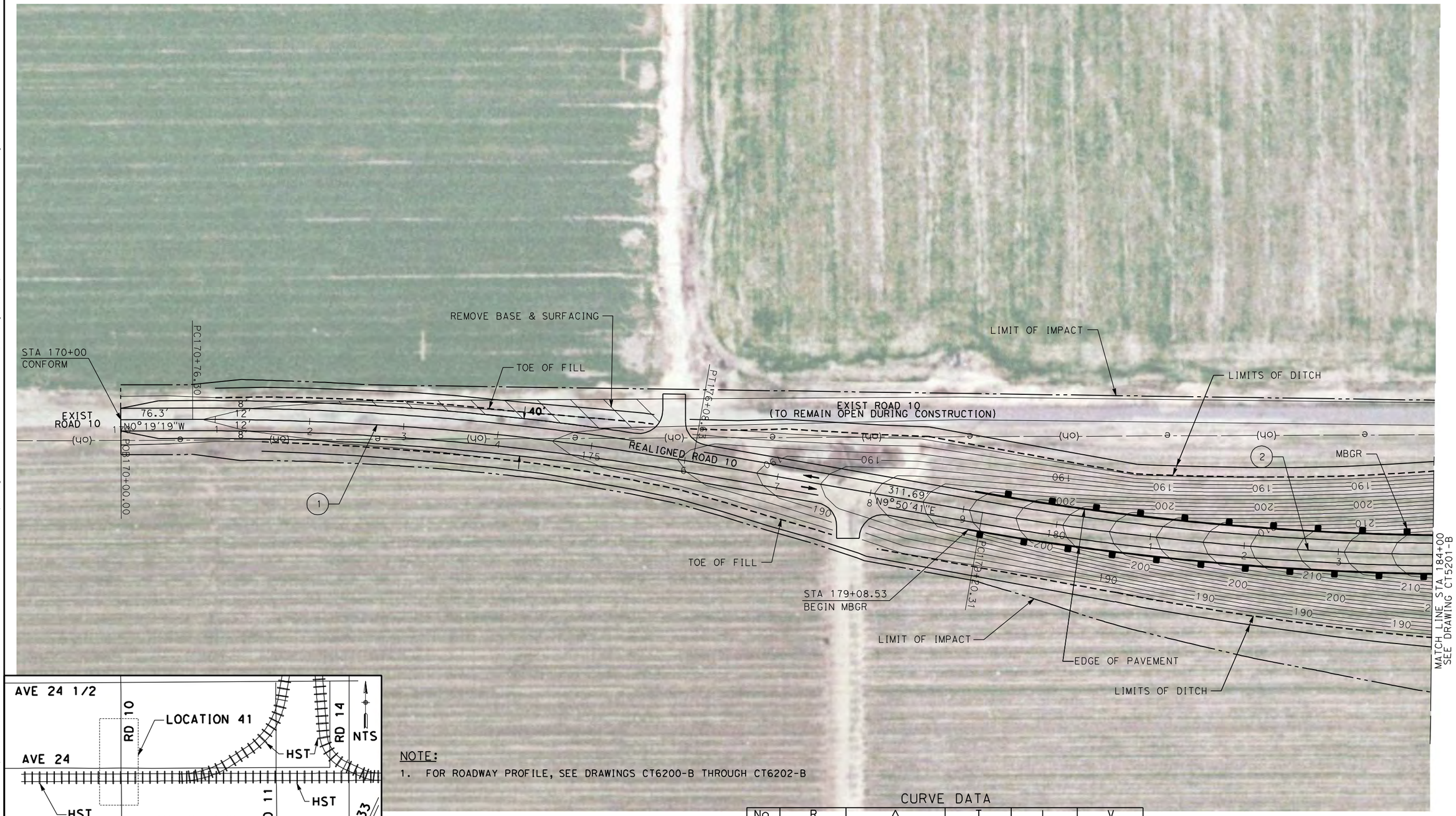
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

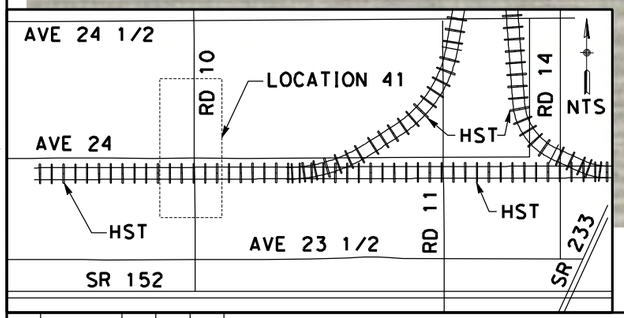
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MERCED CONNECTOR - HYBRID
GRADE SEPARATION - G STREET
LAYOUT
SHEET 1 OF 1

CONTRACT NO. HST06-007
DRAWING NO. CT0149-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6200-B THROUGH CT6202-B

CURVE DATA

No.	R	Δ	T	L	V
1	3000.00	79°50'0"	266.86	532.33	45 MPH
2	3000.00	79°40'17"	271.14	540.81	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAINLINE/WYE DO - (HYBRID)
GRADE SEPARATION - ROAD 10 ALT 1
LAYOUT
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5200-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:55:26 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 3 - hybrid\volume 1b - hybrid grade separation\Layout\CT5200-B.dgn
ayeled

℄ HST TRACK
A2-24WCDO
(SEE DRAWING T2411-A)

℄ HST TRACK
A2-24WCDO
(SEE DRAWING T2421-A)

℄ HST TRACKS
HYBRID
(SEE DRAWING T1095-A)

HST R/W

PROPOSED ROAD 10
OVERHEAD

LIMIT OF IMPACT

REMOVE BASE
& SURFACING

REMOVE BASE & SURFACING

LIMITS OF DITCH

TOE OF FILL

EXIST ROAD 10 TO SERVE AS POTENTIAL PRIVATE PROPERTY ACCESS

EXIST ROAD 10
(TO REMAIN OPEN DURING CONSTRUCTION)

TOE OF FILL

LIMITS OF DITCH

MATCH LINE STA 184+00
SEE DRAWING CT5200-B

MATCH LINE STA 198+00
SEE DRAWING CT5202-B

REALIGNED ROAD 10

1179.44'
N0°29'2"W

8'
12'
12'
8'
40'

LIMITS OF DITCH

MBGR

TOE OF FILL

STA 189+06.38
BEGIN BRIDGE

STA 189+06.38
END MBGR

STA 192+71.40
BEGIN MBGR

STA 192+71.40
END BRIDGE

MBGR

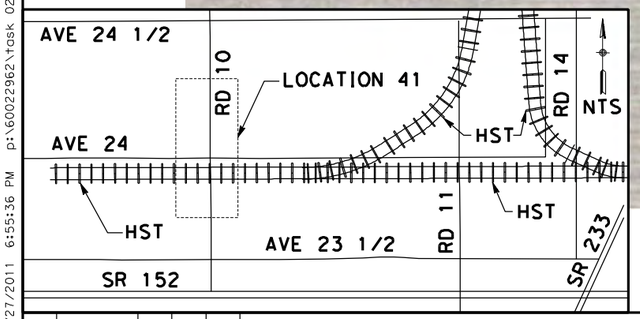
TOE OF FILL

LIMITS OF DITCH

EDGE OF PAVEMENT

LIMIT OF IMPACT

AVENUE 24



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6200-B THROUGH CT6202-B

CURVE DATA

NO.	R	Δ	T	L	V
(2)	3000.00	79°40'17"	271.14	540.81	45 MPH
(3)	3000.00	79°52'52"	265.60	529.82	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAINLINE/WYE DO - (HYBRID)
GRADE SEPARATION - ROAD 10 ALT 1
LAYOUT
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5201-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 6:55:36 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 3 - hybrid\volume 1b - hybrid grade separation\Layout\CT5201-B.dgn
ayeled

ayeled 4/27/2011 6:55:45 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 3 - hybrid\volume 1b - hybrid grade separation\layout\CT5202-B.dgn

REMOVE BASE & SURFACING

EXIST ROAD 10
(TO REMAIN OPEN DURING CONSTRUCTION)

LIMITS OF DITCH

MATCH LINE STA 188+00
SEE DRAWING CT5201-B

MBGR

LIMIT OF IMPACT

PC 204+94.48

REALIGNED ROAD 10

249.1'
N10°36'10"W

STA 201+67.13
END MBGR

STA 202+10.38

TOE OF FILL

LIMIT OF IMPACT

LIMITS OF DITCH

TOE OF FILL

EDGE OF PAVEMENT

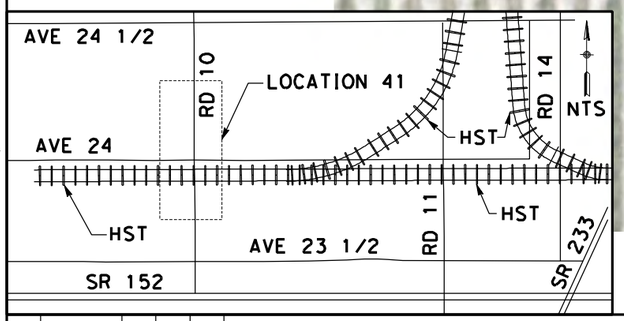
PT209+51.80

100'
N0°26'10"W

STA 210+51.81
CONFORM

EXIST
ROAD 10

POE210+51.81



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6200-B THROUGH CT6202-B

CURVE DATA

No.	R	Δ	T	L	V
3	3000.00	79°52'52"	265.60	529.82	45 MPH
4	3000.00	79°50'0"	266.86	532.33	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

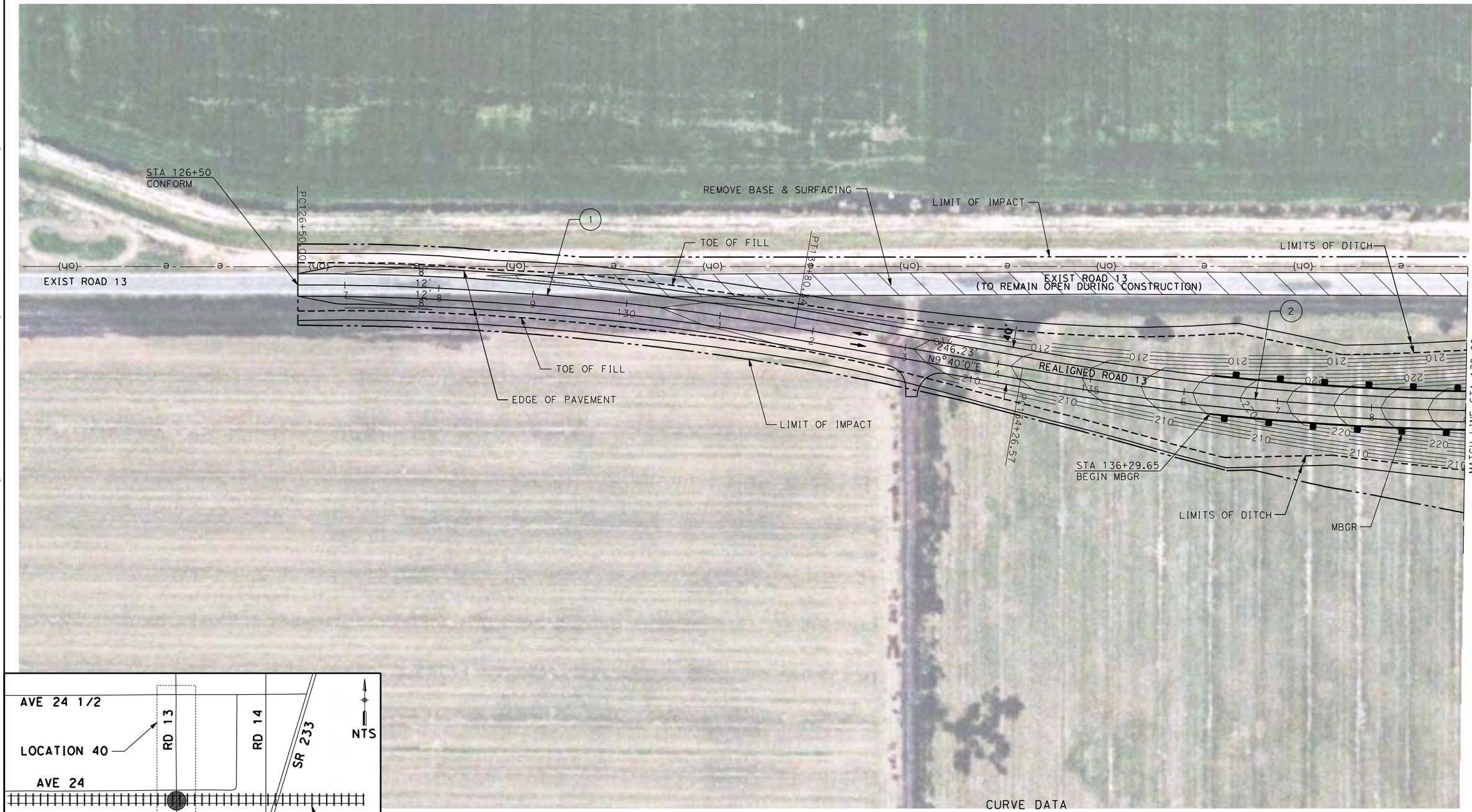
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

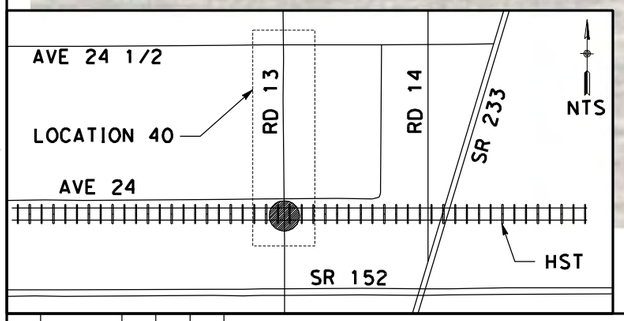
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAINLINE/WYE DO - (HYBRID)
GRADE SEPARATION - ROAD 10 ALT 1
LAYOUT
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5202-B
SCALE AS SHOWN
SHEET NO. ### OF ###

p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 3 - hybrid\volume 1b - hybrid grade separation\Layout\CT5203-B.dgn
1/5/2012 7:05:38 AM
ReyesC1





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6203-B THROUGH CT6207-B

CURVE DATA

No.	R	Δ	T	L	V
(1)	3000.00	10°07'43"	265.86	530.34	45 MPH
(2)	3000.00	10°00'07"	262.52	523.71	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAINLINE/MERCED DO - (HYBRID)
GRADE SEPARATION - ROAD 13
LAYOUT
SHEET 1 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT5203-B
SCALE AS SHOWN
SHEET NO. ### OF ###

℄ HST TRACKS
HYBRID
(SEE DRAWING T1097-A)

HST R/W

LIMITS OF DITCH

REMOVE BASE & SURFACING

PROPOSED ROAD 13
OVERHEAD

EXIST ROAD 13
(TO REMAIN OPEN DURING CONSTRUCTION)

EXIST ROAD 13 TO SERVE AS POTENTIAL PRIVATE PROPERTY ACCESS

TOE OF FILL

EDGE OF PAVEMENT

LIMIT OF IMPACT

TOE OF FILL

LIMITS OF DITCH

SEE DRAWING CT5203-B
MATCH LINE STA 139+00

MATCH LINE STA 153+00
SEE DRAWING CT5205-B

47.5'

40'

8'
12'
12'
8'

3050.19'
S0°20'7"E

REALIGNED ROAD 13

R=11396.28'

MBGR

STA 144+20.14
BEGIN BRIDGE

STA 144+20.14
END MBGR

STA 148+10.00
BEGIN MBGR

STA 148+10.00
END BRIDGE

MBGR

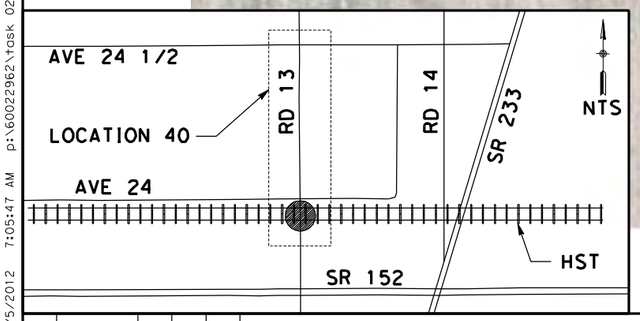
LIMIT OF DITCH

TOE OF FILL

LIMITS OF DITCH

LIMIT OF IMPACT

AVENUE 24



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6203-B THROUGH CT6207-B

CURVE DATA

No.	R	Δ	T	L	V
(2)	3000.00	10°00'07"	262.52	523.71	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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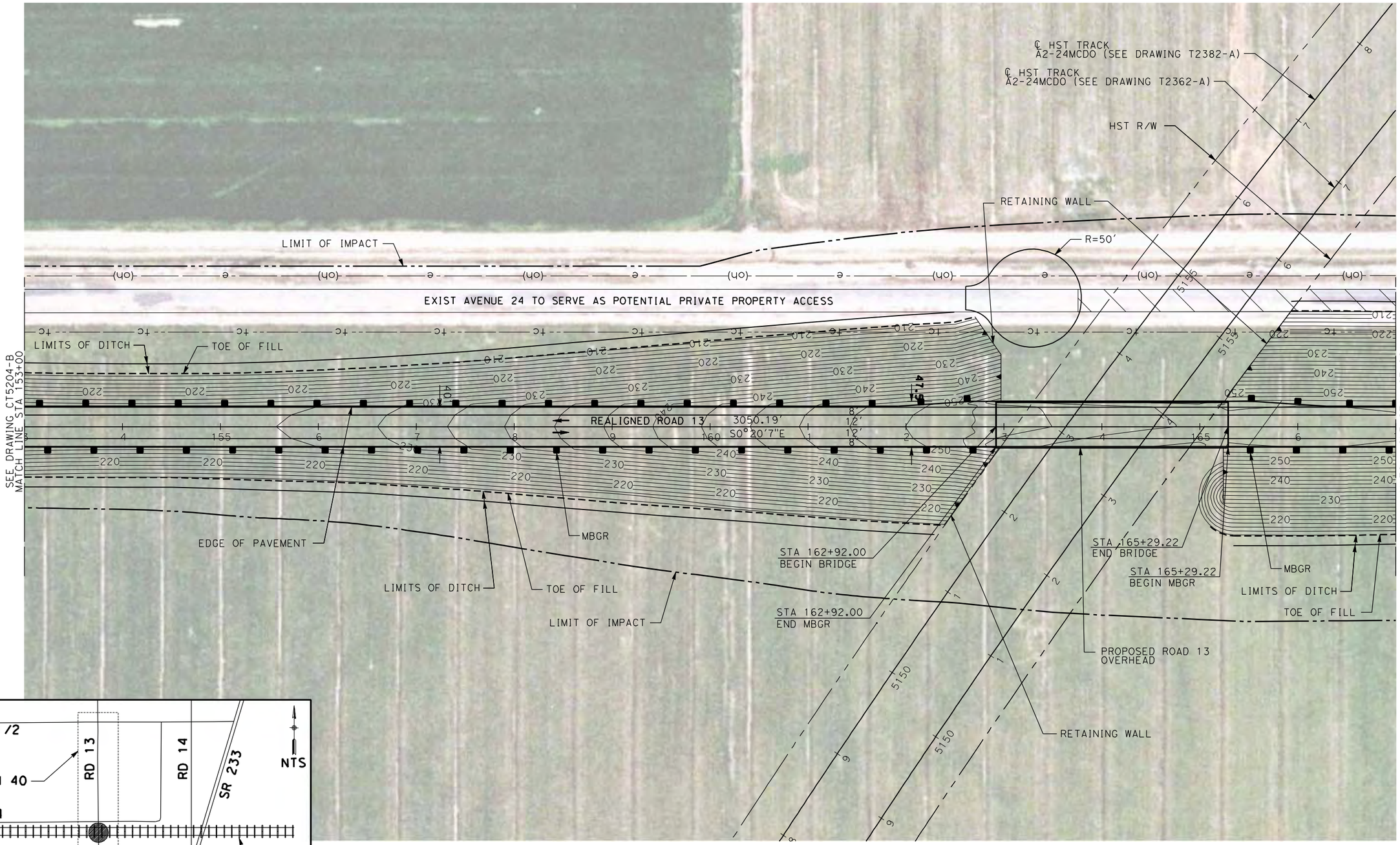
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAINLINE/MERCED DO - (HYBRID)
GRADE SEPARATION - ROAD 13
LAYOUT
SHEET 2 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT5204-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6203-B THROUGH CT6207-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAINLINE/MERCED DO - (HYBRID)
GRADE SEPARATION - ROAD 13
LAYOUT
SHEET 3 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT5205-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ReyesC1

SEE DRAWING CT5221-B

℄ HST TRACK
A2-24MCDO (SEE DRAWING T2362-A)

HST R/W

LIMIT OF IMPACT

STA 172+52.75
END MBGR

LIMITS OF DITCH

REMOVE BASE & SURFACING

TOE OF FILL

STA 172+52.75
BEGIN BRIDGE

EXIST ROAD 13
(TO REMAIN OPEN DURING CONSTRUCTION)

AVENUE 24 1/2

STA 174+50.09
END BRIDGE

TOE OF FILL

LIMITS OF DITCH

LIMIT OF IMPACT

4

REALIGNED ROAD 13

R11.26'
N0°20'7"W

SEE DRAWING CT5205-B
MATCH LINE STA 167+00

3050.19'
S0°20'7"E

8' 12' 12' 8'

MBGR

EDGE OF PAVEMENT

STA 170+00.47
END MBGR

TOE OF FILL

LIMITS OF DITCH

3

LIMIT OF IMPACT

TOE OF FILL

LIMITS OF DITCH

LIMIT OF IMPACT

EDGE OF PAVEMENT

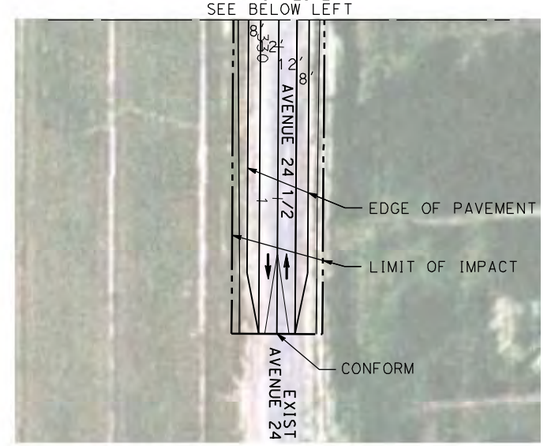
LIMIT OF IMPACT

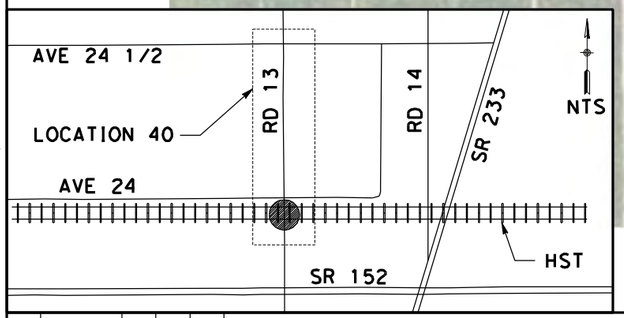
AVENUE 24 1/2

MATCH LINE STA 181+00
SEE DRAWING CT5207-B

MATCH LINE
SEE BELOW LEFT

MATCH LINE
SEE ABOVE RIGHT





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6203-B THROUGH CT6207-B

CURVE DATA

No.	R	Δ	T	L	V
3	3000.00	10°00'00"	262.46	523.59	45 MPH
4	3000.00	10°01'26"	263.09	524.84	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

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Sacramento, CA 95811
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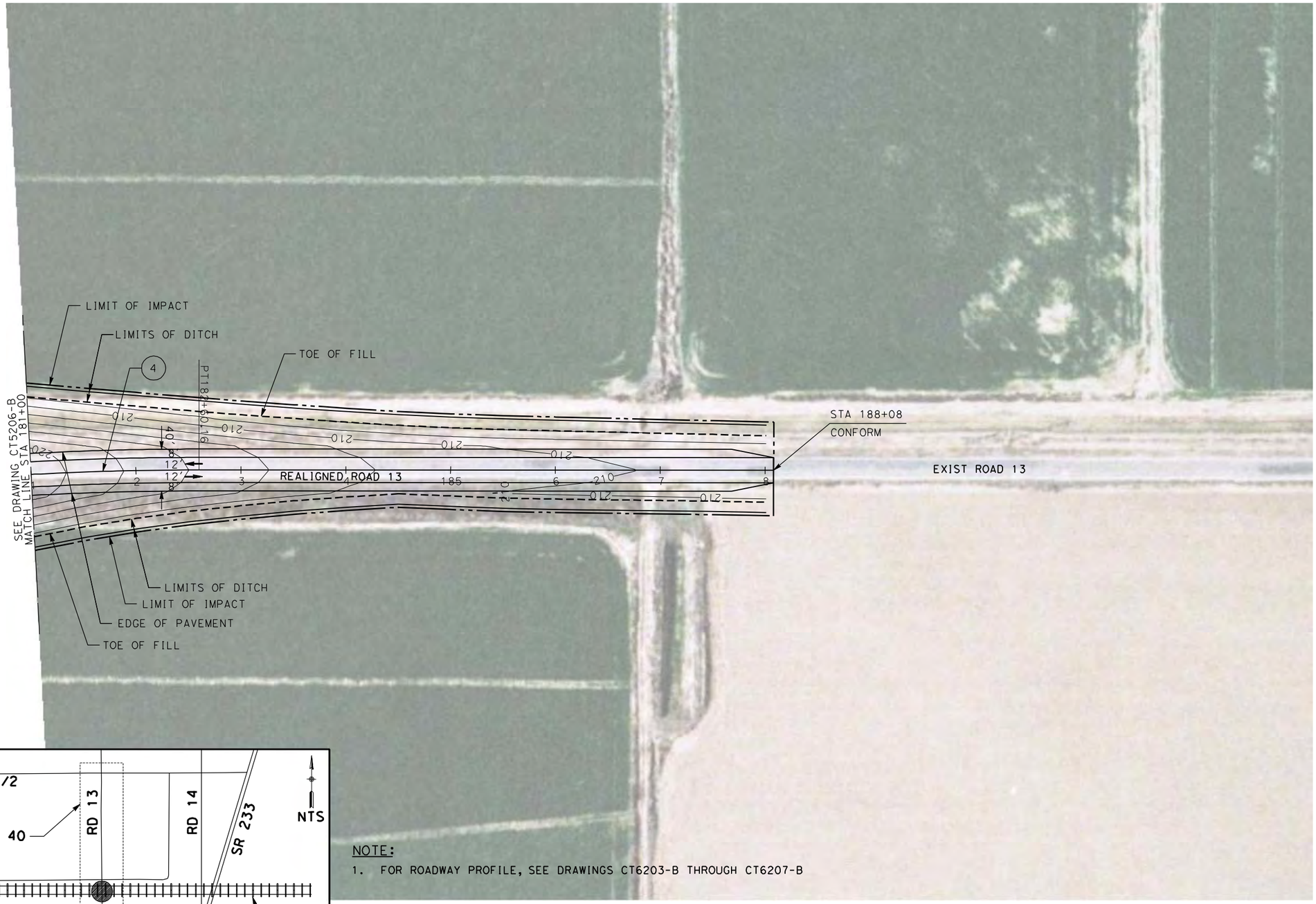
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

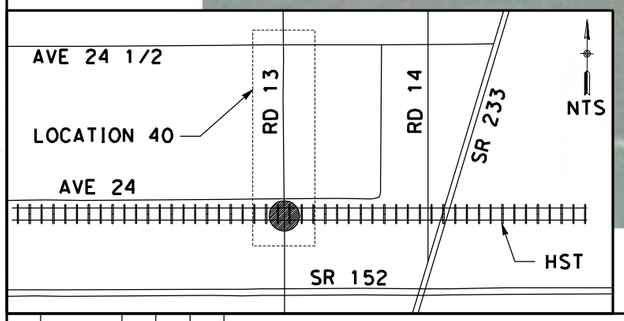
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAINLINE/MERCED DO - (HYBRID)
GRADE SEPARATION - ROAD 13
LAYOUT
SHEET 4 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT5206-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6203-B THROUGH CT6207-B

CURVE DATA

No.	R	Δ	T	L	V
(4)	3000.00	10°01'26"	263.09	524.84	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

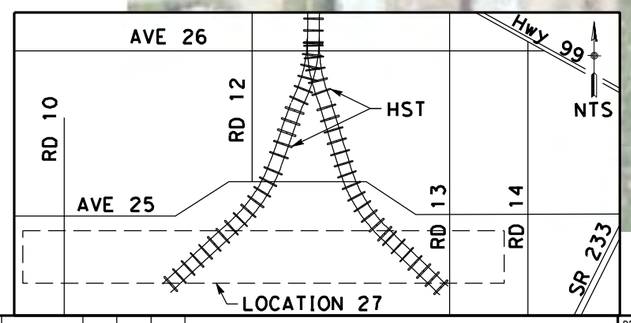
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAINLINE/MERCED DO - (HYBRID)
GRADE SEPARATION - ROAD 13
LAYOUT
SHEET 5 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT5207-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6210-B THROUGH CT6222-B

CURVE DATA

No.	R	Δ	T	L	V
(1)	3500.00	44°36'04"	1435.49	2724.52	55 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

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CH2MHILL

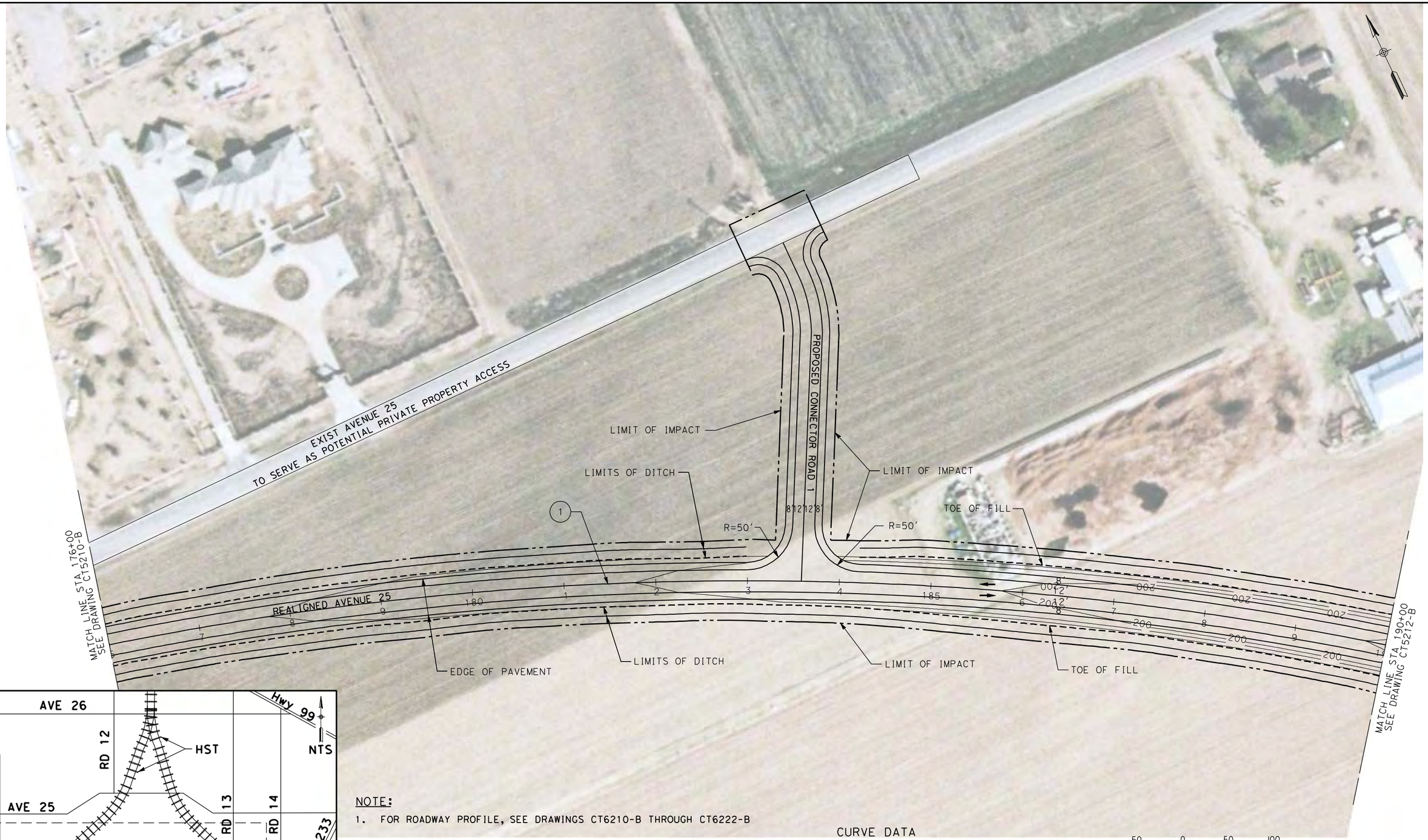
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

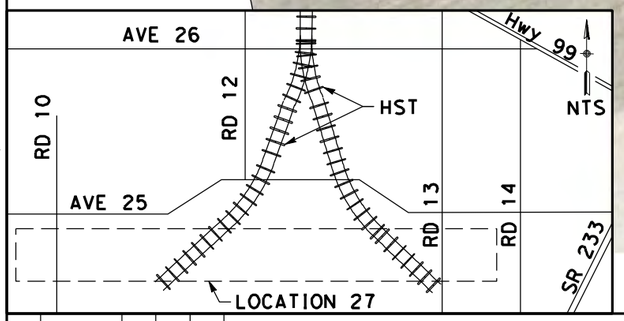
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 25
LAYOUT
SHEET 1 OF 12

CONTRACT NO. HSR06-007
DRAWING NO. CT5210-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ReyesC1





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6210-B THROUGH CT6222-B

CURVE DATA

No.	R	Δ	T	L	V
(1)	3500.00	44°36'04"	1435.49	2724.52	55 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 25
LAYOUT
SHEET 2 OF 12

CONTRACT NO. HSR06-007
DRAWING NO. CT5211-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ReyesC1

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LIMITS OF DITCH

MATCH LINE STA 190+00 SEE DRAWING CT5211-B

LIMIT OF IMPACT

EDGE OF PAVEMENT

LIMITS OF DITCH

TOE OF FILL

REALIGNED AVENUE 25

893.18'

S45°40'27"E

TOE OF FILL

R=50'

R=50'

MATCH LINE STA 204+00 SEE DRAWING CT5213-B

PROPOSED BOX CULVERT

LIMIT OF IMPACT

CONNECTOR ROAD 2

EDGE OF PAVEMENT

R=850'

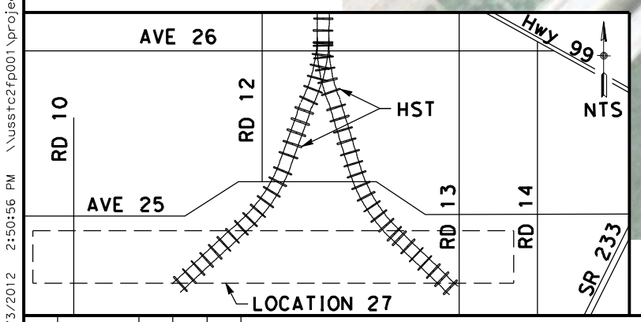
SEE DRAWING CR9213-B

CURVE DATA

No.	R	Δ	T	L	V
1	3500.00	44°36'04"	1435.49	2724.52	55 MPH

50 0 50 100

1"=50'



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6210-B THROUGH CT6222-B

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 25
LAYOUT
SHEET 3 OF 12

CONTRACT NO. HSR06-007
DRAWING NO. CT5212-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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1/5/2012 7:06:53 AM
ReyesC1

EXIST ROAD 11

MATCH LINE STA 218+00
SEE DRAWING CT5214-B

R=50'

TOE OF FILL

REALIGNED AVENUE 25

LIMITS OF DITCH

LIMIT OF IMPACT

2

TOE OF FILL

MATCH LINE STA 204+00
SEE DRAWING CT5212-B

EDGE OF PAVEMENT

LIMIT OF IMPACT

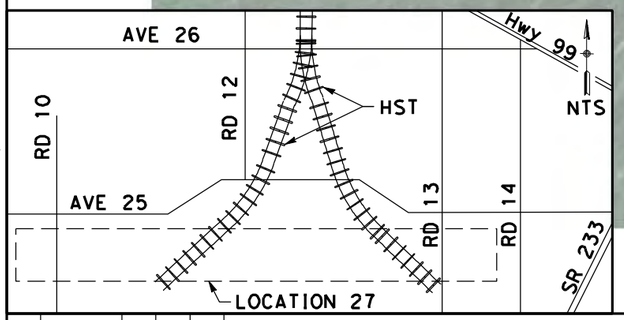
LIMITS OF DITCH

ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDITIONAL STUDIES WILL BE CONDUCTED DURING THE PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPROVEMENTS.

EXIST AVENUE 24 1/2

LIMIT OF IMPACT

SEE DRAWING CR9213-B



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6210-B THROUGH CT6222-B

CURVE DATA

No.	R	Δ	T	L	V
(2)	3500.00	44°19'33"	1425.68	2707.71	55 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

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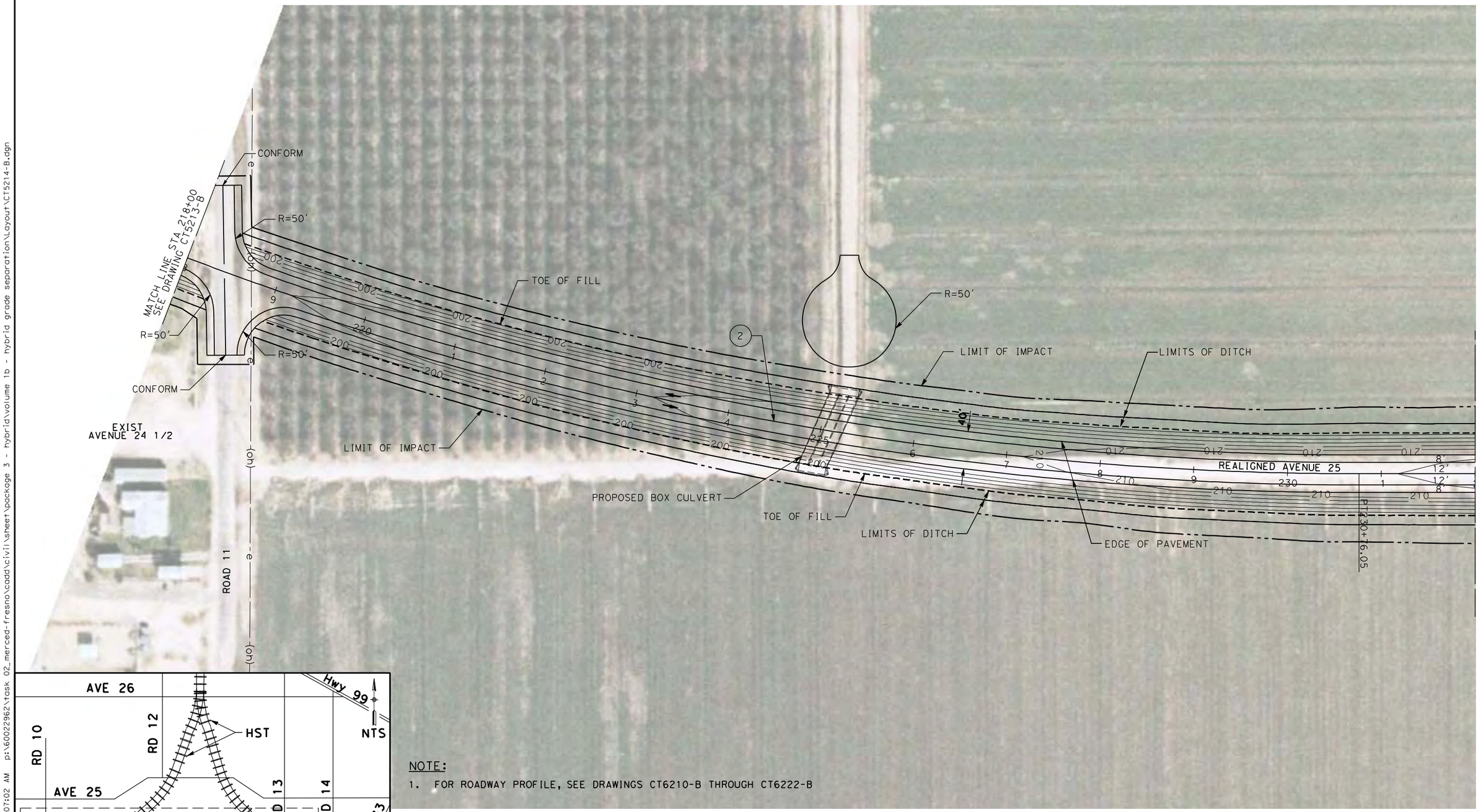
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 25
LAYOUT
SHEET 4 OF 12

CONTRACT NO. HSR06-007
DRAWING NO. CT5213-B
SCALE AS SHOWN
SHEET NO. ### OF ###



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6210-B THROUGH CT6222-B

CURVE DATA

No.	R	Δ	T	L	V
(2)	3500.00	44°19'33"	1425.68	2707.71	55 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
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CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
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AECOM Technical Services, Inc.
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CH2MHILL

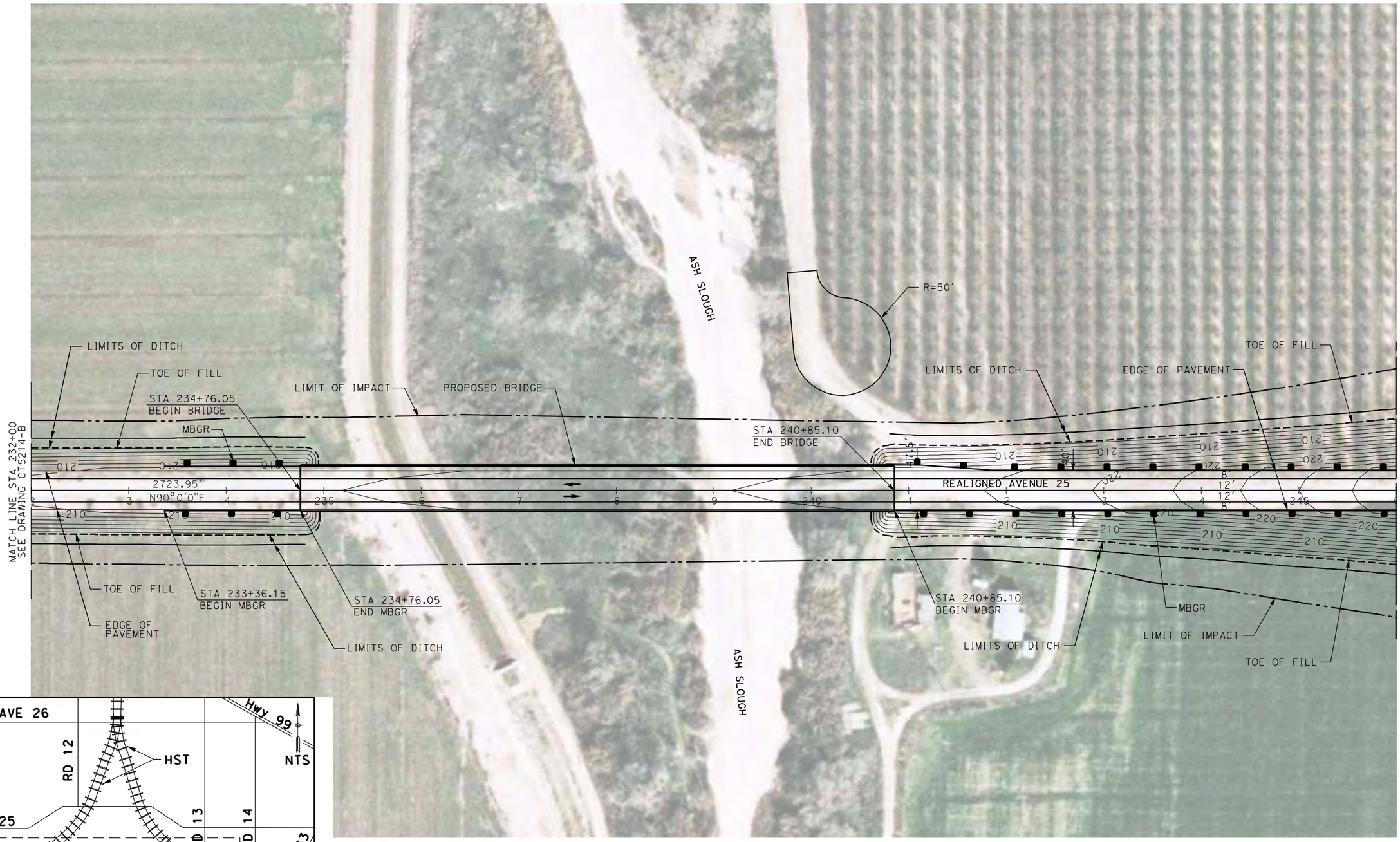
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

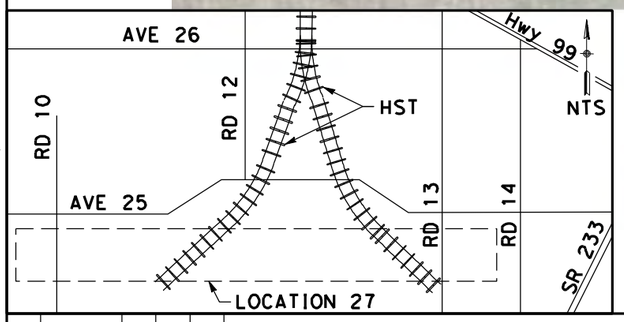
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 25
LAYOUT
SHEET 5 OF 12

CONTRACT NO. HSR06-007
DRAWING NO. CT5214-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6210-B THROUGH CT6222-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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Sacramento, CA 95811
CH2MHILL

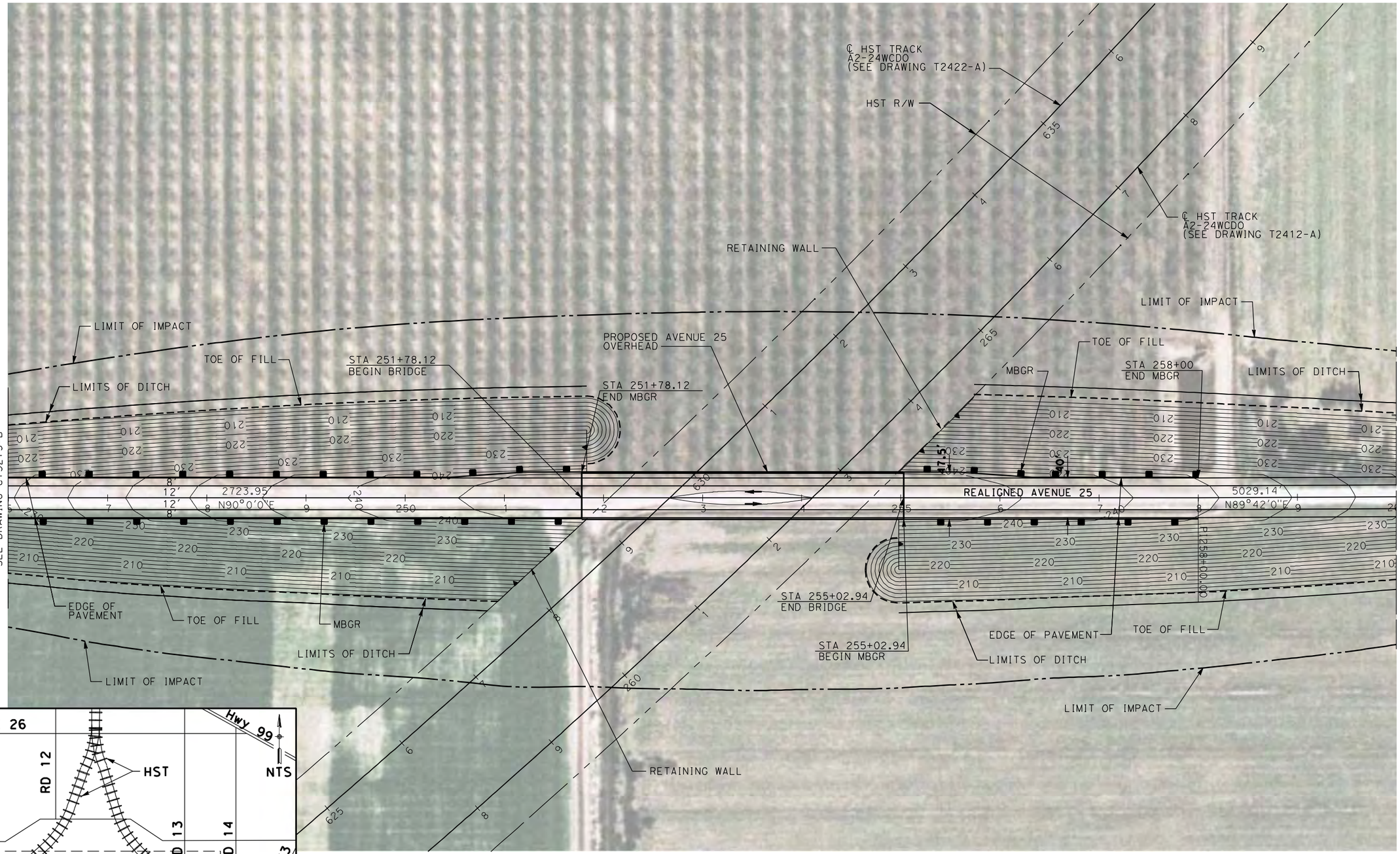
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 25
LAYOUT
SHEET 6 OF 12

CONTRACT NO. HSR06-007
DRAWING NO. CT5215-B
SCALE AS SHOWN
SHEET NO. ### OF ###

ReyesC1 1/5/2012 7:07:12 AM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 3 - hybrid\volume 1b - hybrid grade separation\Layout\CT5215-B.dgn



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6210-B THROUGH CT6222-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

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Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

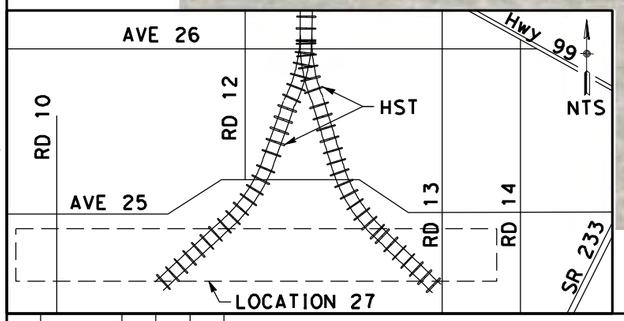
UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 25
LAYOUT
SHEET 7 OF 12

CONTRACT NO. HSR06-007
DRAWING NO. CT5216-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ReyesC1

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NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6210-B THROUGH CT6222-B

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

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Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 25
LAYOUT
SHEET 8 OF 12

CONTRACT NO. HSR06-007
DRAWING NO. CT5217-B
SCALE AS SHOWN
SHEET NO. ### OF ###

ReyesC1

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ReyesC1

SEE DRAWING CR9215-B

8' 12' 12' 8'

PROPOSED ROAD 12 1/2

LIMIT OF IMPACT

TOE OF FILL

R=50'

R=50'

LIMIT OF IMPACT

LIMITS OF DITCH

MATCH LINE STA 274+00
SEE DRAWING CT5217-B

5029.14'
N89°42'0"E

40'

PROPOSED AVENUE 25

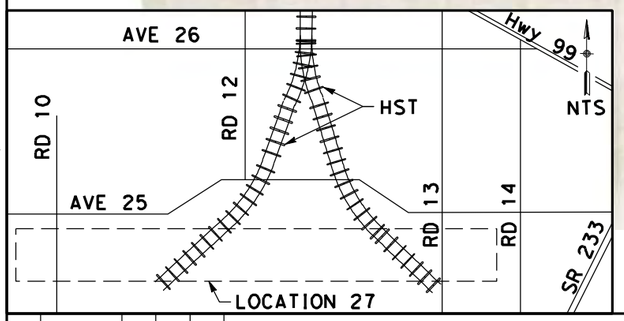
8' 12' 12' 8'

EDGE OF PAVEMENT

LIMITS OF DITCH

TOE OF FILL

MATCH LINE STA 289+00
SEE DRAWING CT5219-B



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6210-B THROUGH CT6222-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

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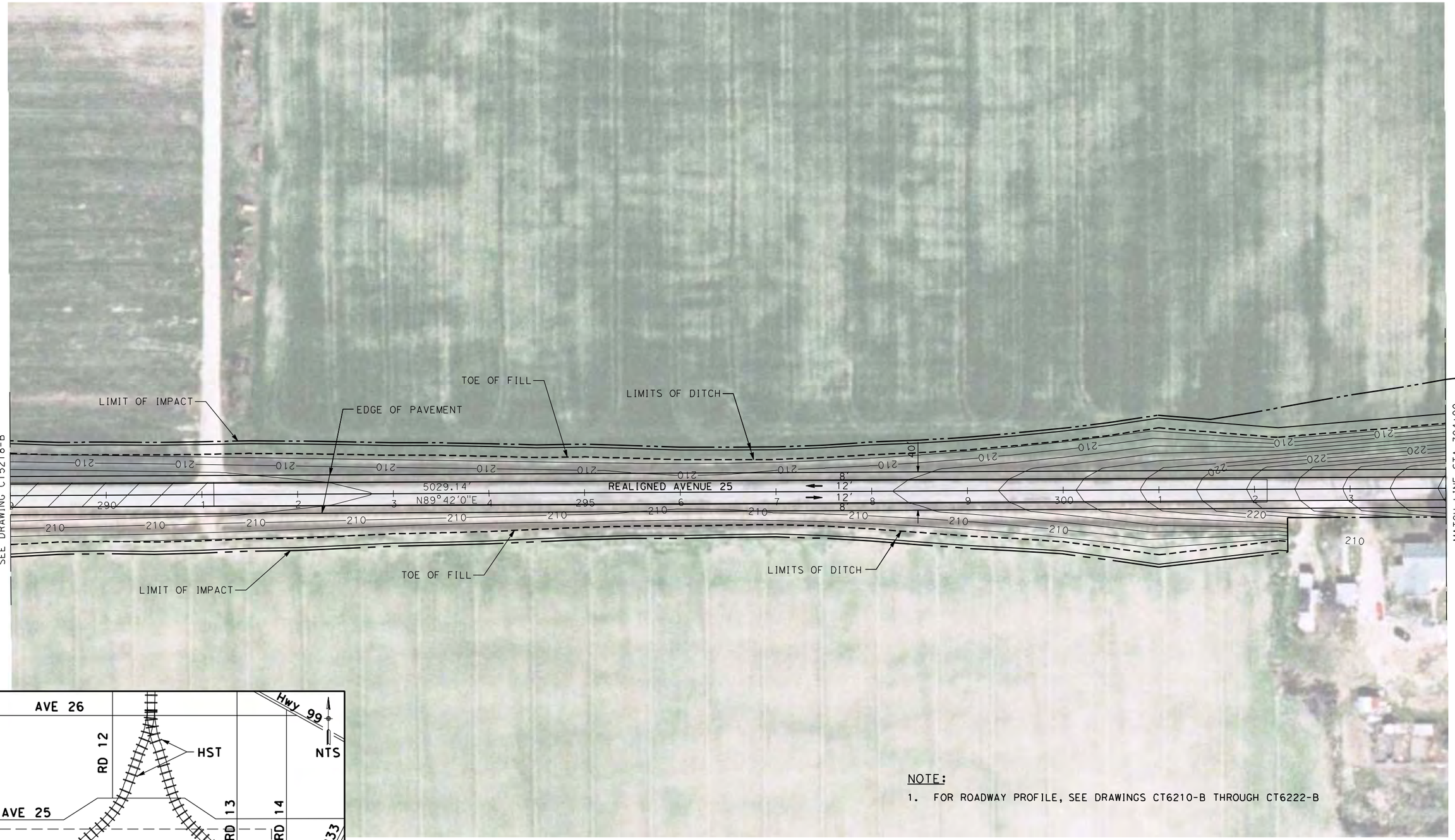
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

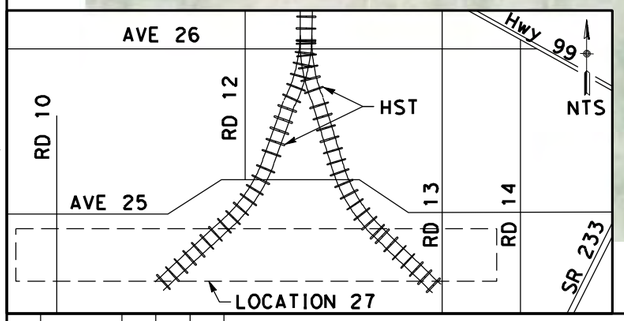
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 25
LAYOUT
SHEET 9 OF 12

CONTRACT NO. HSR06-007
DRAWING NO. CT5218-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ReyesC1





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6210-B THROUGH CT6222-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 25
LAYOUT
SHEET 10 OF 12

CONTRACT NO. HSR06-007
DRAWING NO. CT5219-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ReyesC1

℄ HST TRACK
A2-24MCDO
(SEE DRAWING T2382-A)

℄ HST TRACK
A2-24MCDO (SEE DRAWING T2362-A)

HST R/W

PROPOSED AVENUE 25 OVERHEAD

LIMIT OF IMPACT

EDGE OF PAVEMENT

STA 312+97.35
BEGIN BRIDGE

STA 315+79.15
END BRIDGE

LIMITS OF DITCH

TOE OF FILL

MATCH LINE STA 304+00
SEE DRAWING CT5219-B

MATCH LINE STA 319+00
SEE DRAWING CT5221-B

REALIGNED AVENUE 25

5029.14'
N89°42'0"E

2560.09'
N90°0'0"E

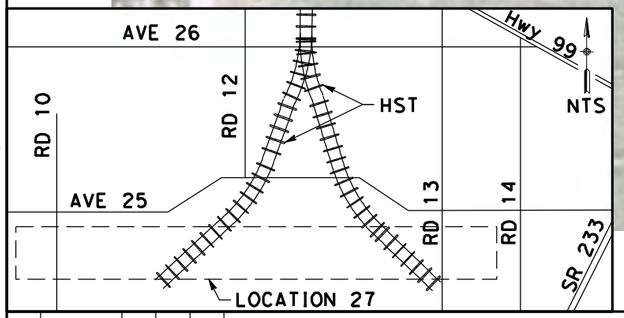
40'

47.5'

8'
12'
12'
8'

LIMIT OF IMPACT

LIMIT OF IMPACT



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6210-B THROUGH CT6222-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
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Sacramento, CA 95811

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

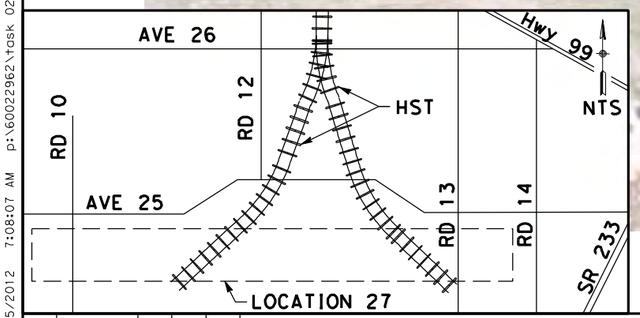
UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 25
LAYOUT
SHEET 11 OF 12

CONTRACT NO. HSR06-007
DRAWING NO. CT5220-B
SCALE AS SHOWN
SHEET NO. ### OF ###

Page 3 - hybrid\volume 1b - hybrid grade separation\Layout\CT5221-B.dgn

SEE DRAWING CT5206-B





REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

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Sacramento, CA 95811
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

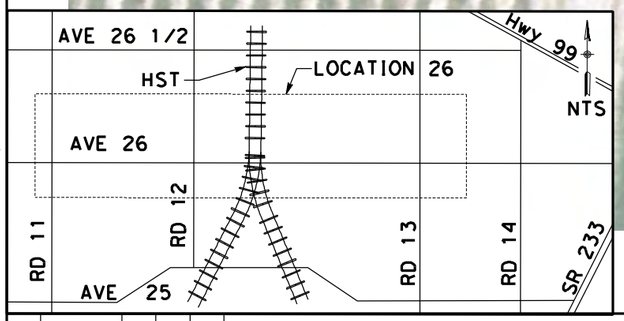
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 25
LAYOUT
SHEET 12 OF 12

CONTRACT NO. HSR06-007
DRAWING NO. CT5221-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6226-B THROUGH CT6235-B

CURVE DATA

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1	3500.00	60°23'27"	925.04	1808.71	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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CH2MHILL

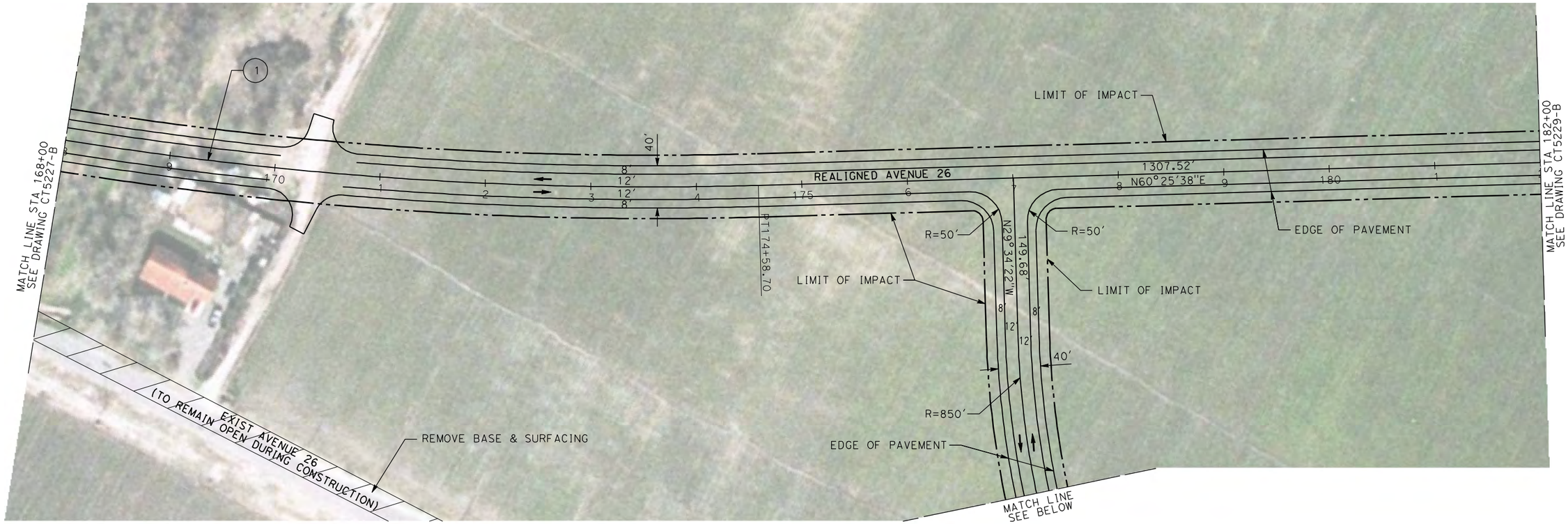
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 26 ALT 1
LAYOUT
SHEET 1 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT5227-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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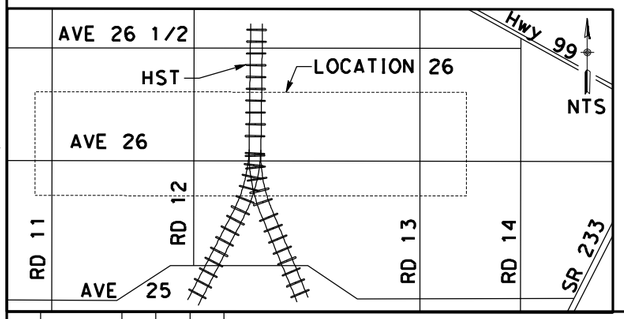


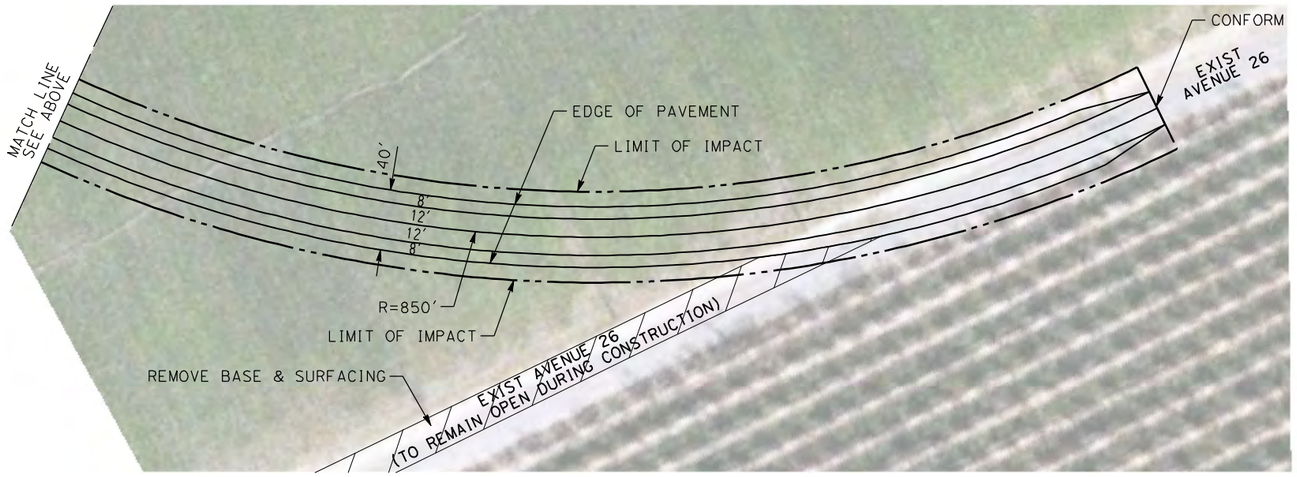
CURVE DATA

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NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6226-B THROUGH CT6235-B





50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

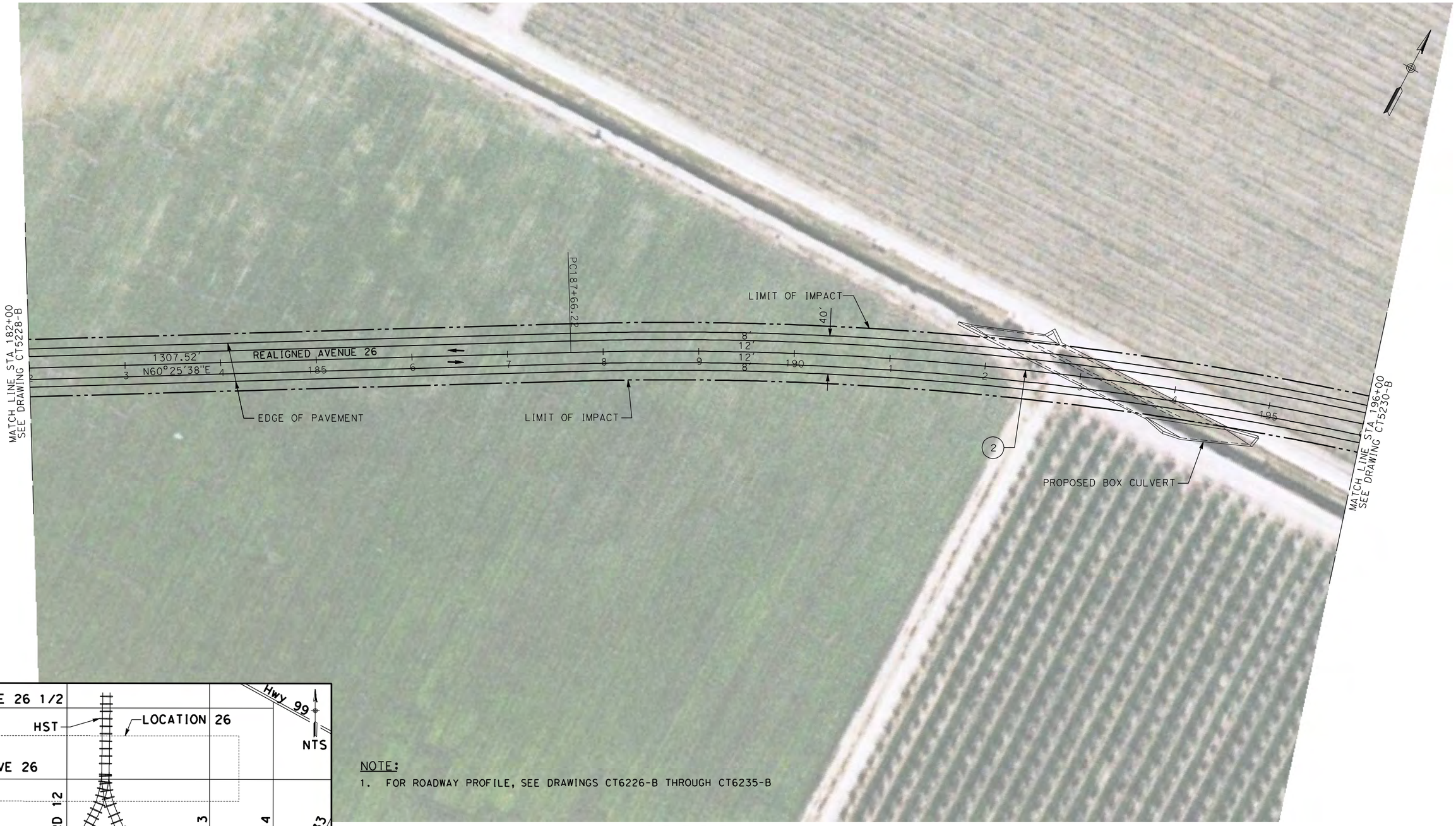
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

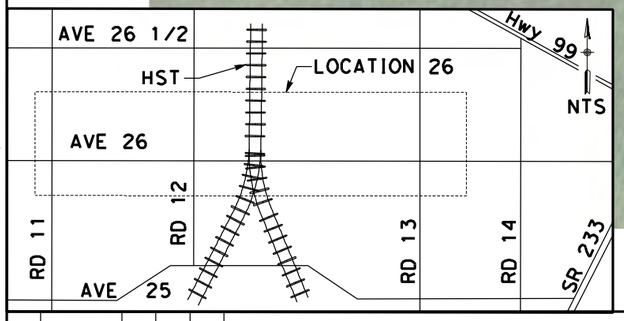
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 26 ALT 1
LAYOUT
SHEET 2 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT5228-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6226-B THROUGH CT6235-B

CURVE DATA

No.	R	Δ	T	L	V
(2)	3500.00	60°25'38"	923.85	1806.50	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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Sacramento, CA 95811

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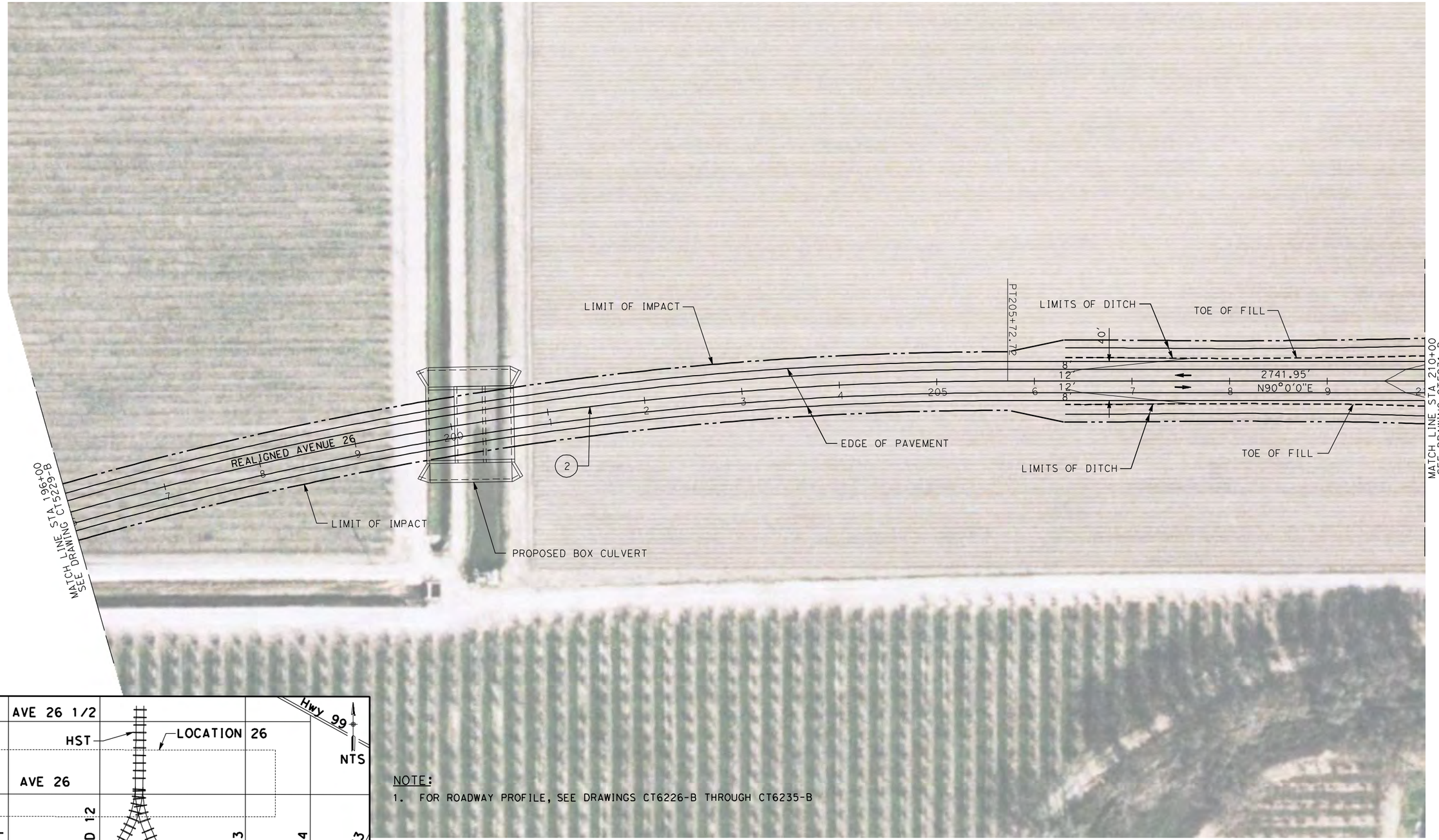
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

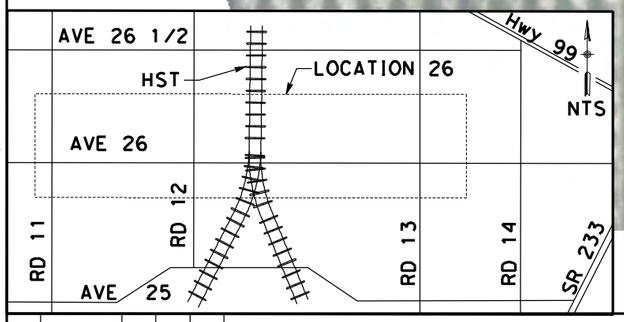
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 26 ALT 1
LAYOUT
SHEET 3 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT5229-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6226-B THROUGH CT6235-B

CURVE DATA

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(2)	3500.00	60°25'38"	923.85	1806.50	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

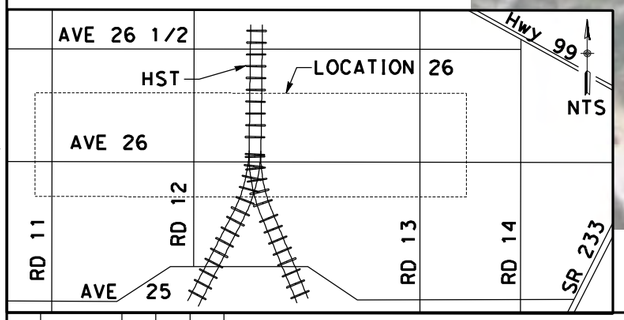
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 26 ALT 1
LAYOUT
SHEET 4 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT5230-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6226-B THROUGH CT6235-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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AECOM Technical Services, Inc.
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Sacramento, CA 95811
CH2MHILL

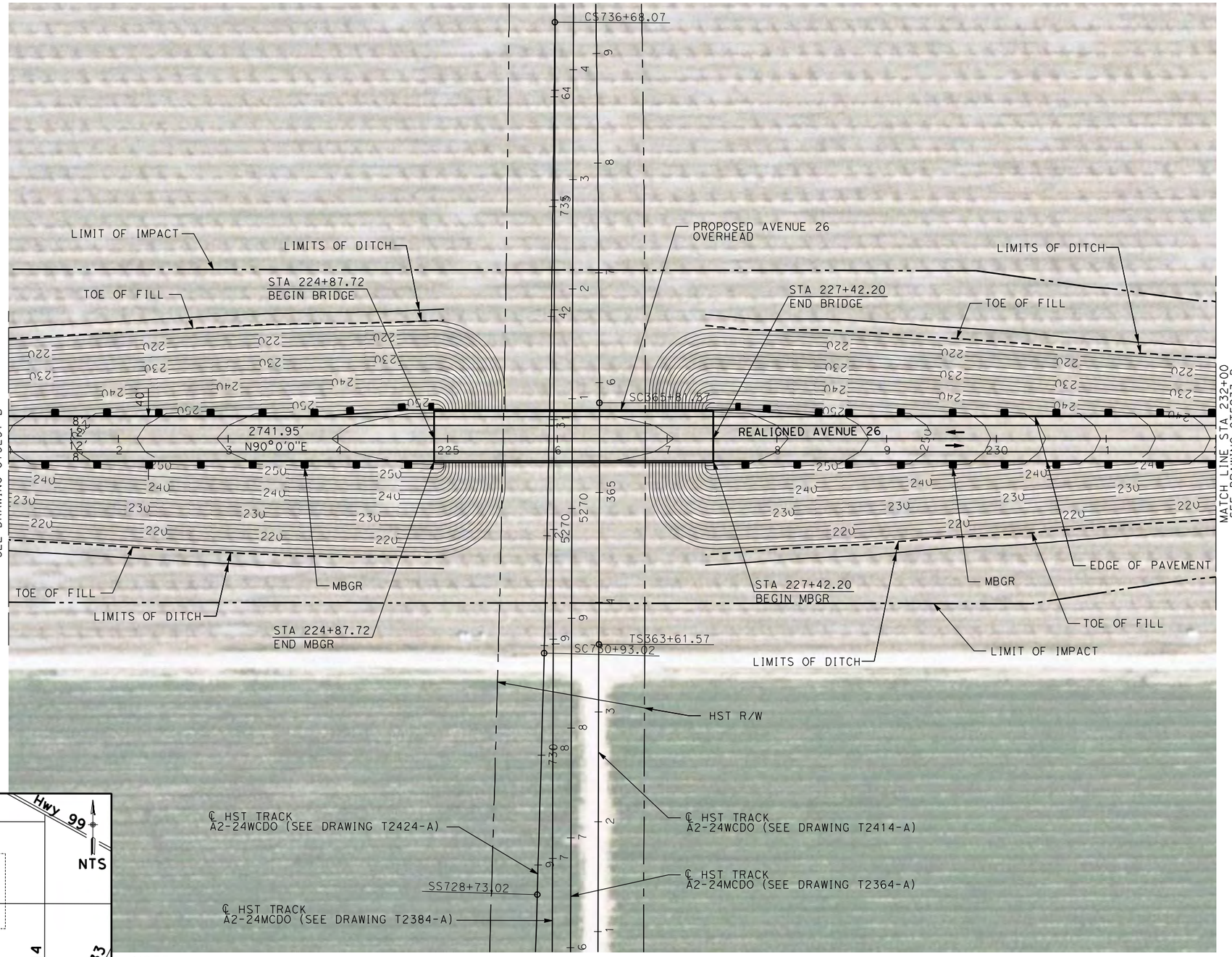
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

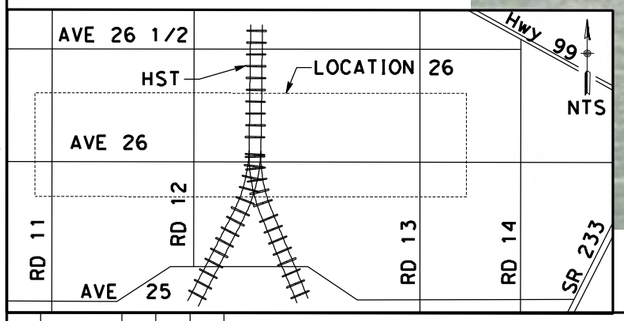
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 26 ALT 1
LAYOUT
SHEET 5 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT5231-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6226-B THROUGH CT6235-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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CH2MHILL

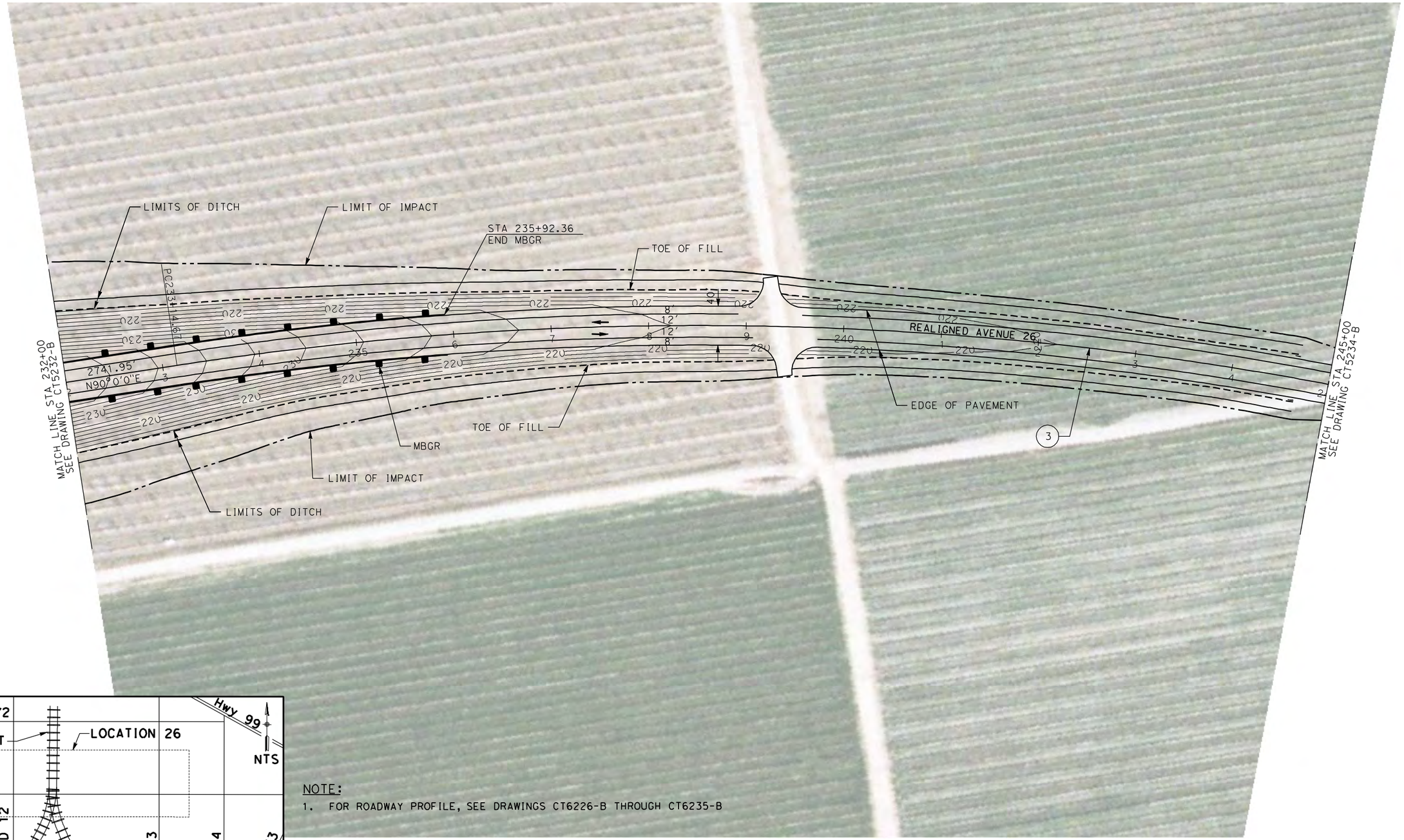
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

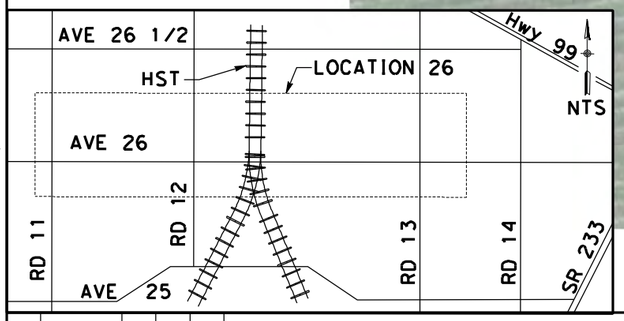
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 26 ALT 1
LAYOUT
SHEET 6 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT5232-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6226-B THROUGH CT6235-B

CURVE DATA

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50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

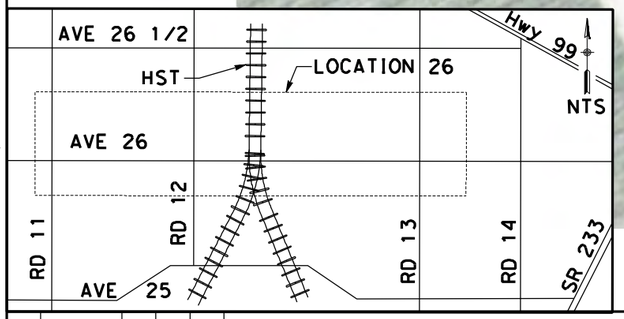
UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 26 ALT 1
LAYOUT
SHEET 7 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT5233-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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4/27/2011 7:00:06 PM
oyeled





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6226-B THROUGH CT6235-B

CURVE DATA

No.	R	Δ	T	L	V
(3)	3500.00	60°25'38"	923.85	1806.50	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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Sacramento, CA 95811

CH2MHILL

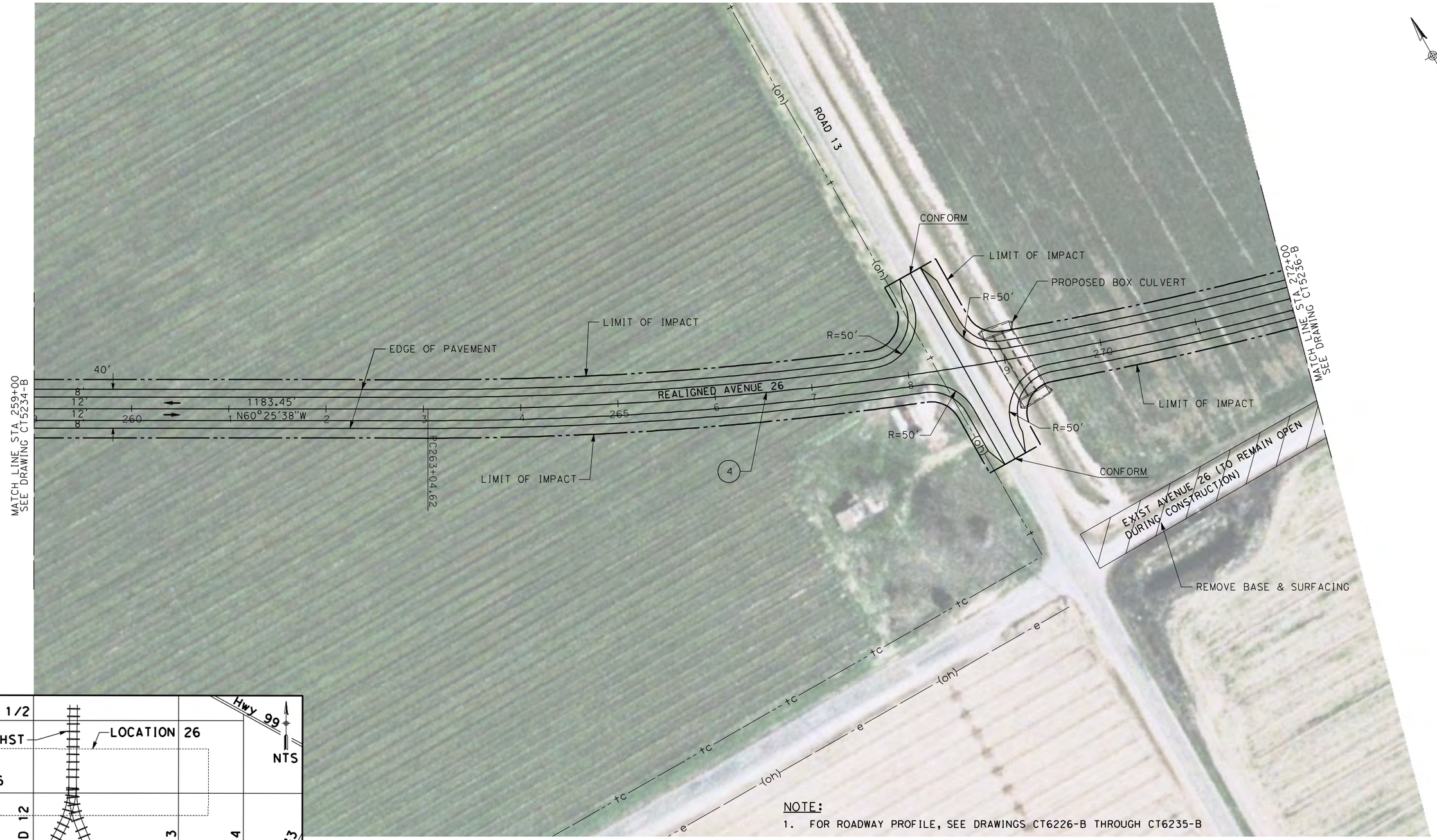
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 26 ALT 1
LAYOUT
SHEET 8 OF 10

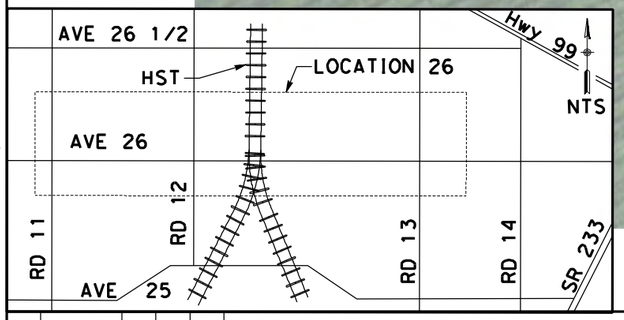
CONTRACT NO. HSR06-007
DRAWING NO. CT5234-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6226-B THROUGH CT6235-B



CURVE DATA

No.	R	Δ	T	L	V
(4)	3500.00	60°15'36"	929.32	1816.72	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

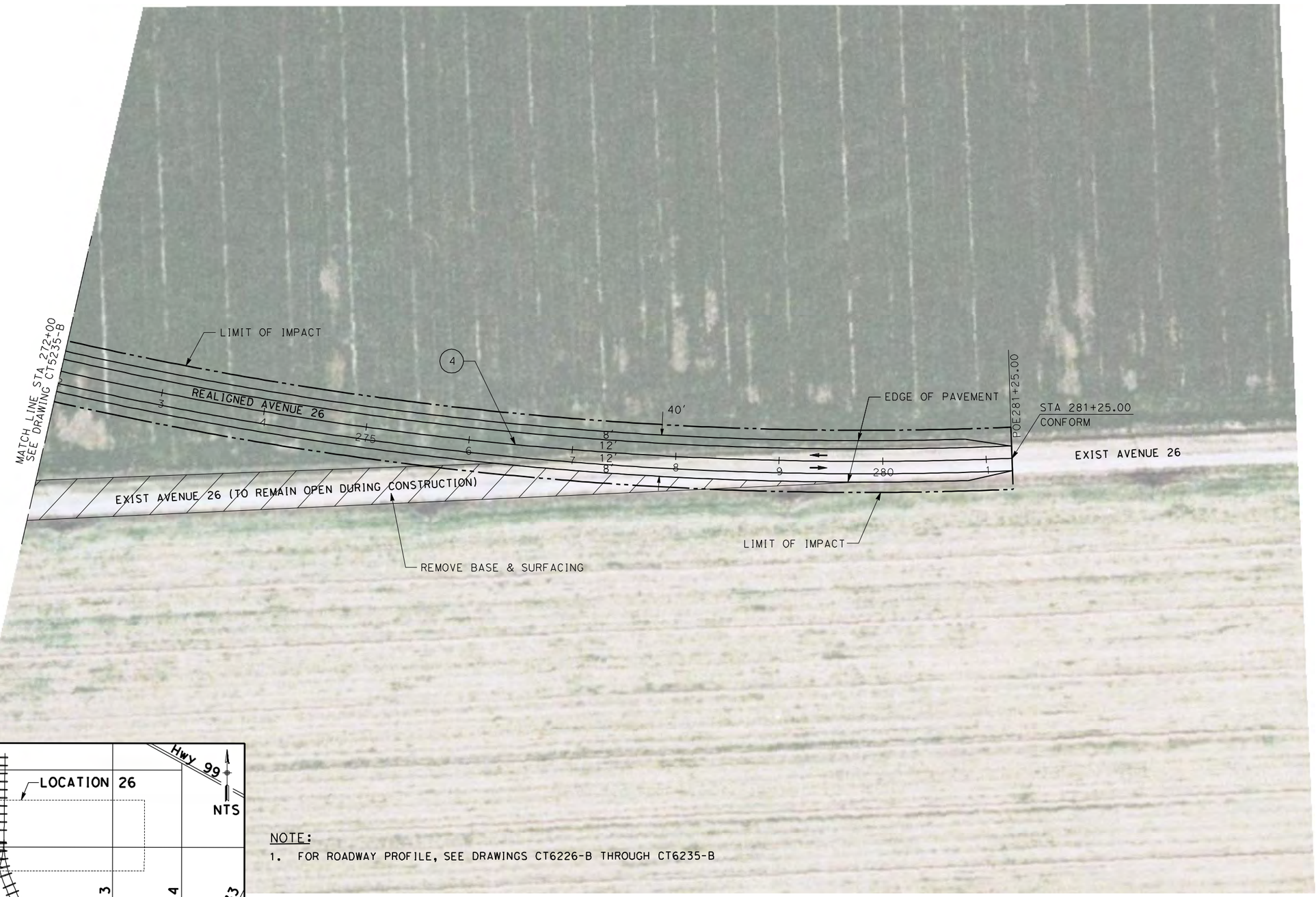
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

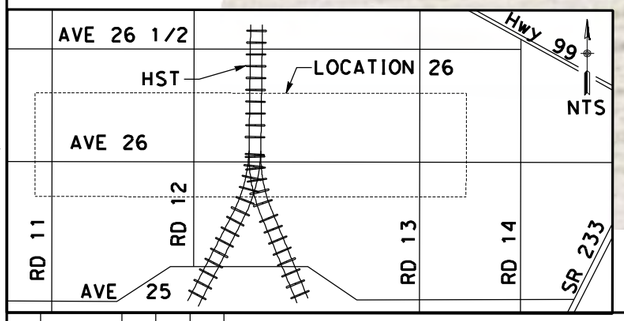
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 26 ALT 1
LAYOUT
SHEET 9 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT5235-B
SCALE AS SHOWN
SHEET NO. ### OF ###





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6226-B THROUGH CT6235-B

CURVE DATA

No.	R	Δ	T	L	V
(4)	3500.00	60°15'36"	929.32	1816.72	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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Sacramento, CA 95811

CH2MHILL

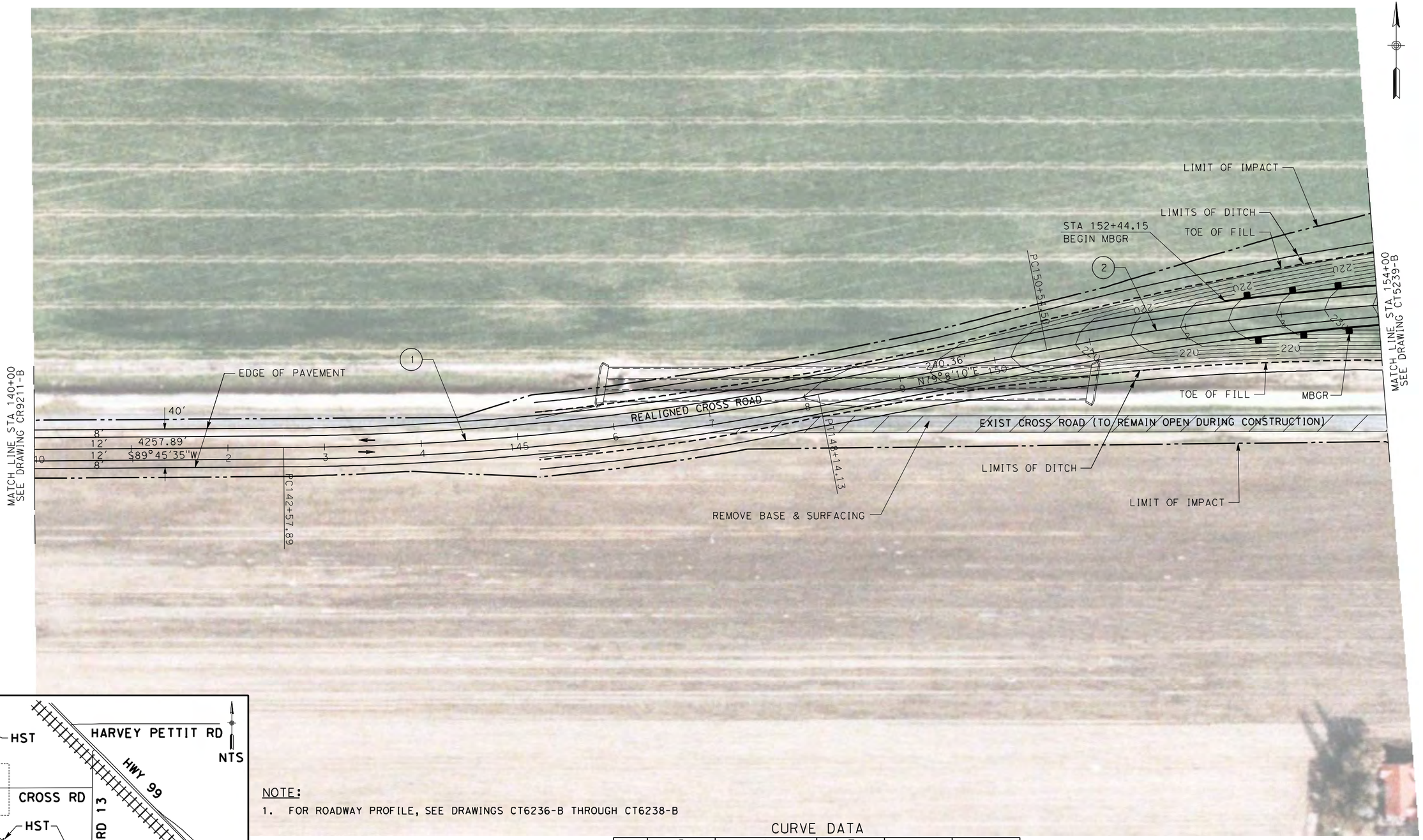
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

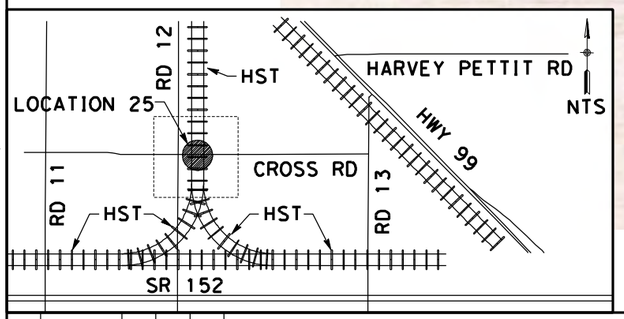
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 26 ALT 1
LAYOUT
SHEET 10 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT5236-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6236-B THROUGH CT6238-B

CURVE DATA

No.	R	Δ	T	L	V
(1)	3000.00	79°22'35"	278.92	556.25	45 MPH
(2)	3000.00	79°0'0"	288.87	575.96	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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Sacramento, CA 95811
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED DO - (HYBRID)
GRADE SEPARATION - CROSS ROAD
LAYOUT
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5238-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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CONFORM

HST R/W

℄ HST TRACKS
A2-24MCDO (SEE DRAWING T2386-A)

℄ HST TRACKS
A2-24MCDO (SEE DRAWING T2366-A)

LIMIT OF IMPACT

R=40′

ROAD 12

TOE OF FILL

LIMITS OF DITCH

STA 161+01.34
END MBGR

STA 163+20.41
BEGIN MBGR

EDGE OF PAVEMENT

PT 156+34.96

PC 167+32.65

REALIGNED CROSS ROAD

1102.2′
S89°51′50"E

MATCH LINE STA 154+00
SEE DRAWING CT5238-B

MATCH LINE STA 169+00
SEE DRAWING CT5240-B

MBGR

STA 161+01.34
BEGIN BRIDGE

STA 163+20.41
END BRIDGE

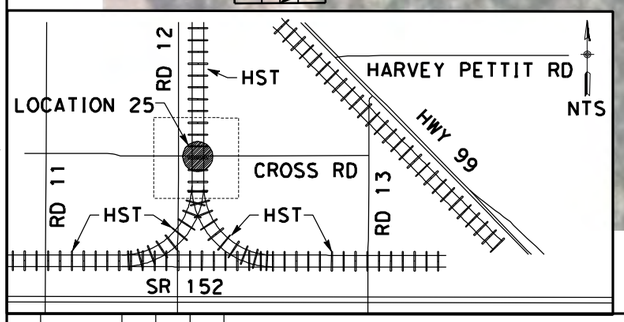
EXIST CROSS ROAD (TO REMAIN OPEN DURING CONSTRUCTION)

REMOVE BASE & SURFACING

PROPOSED CROSS ROAD OVERHEAD

LIMIT OF IMPACT

CONFORM



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6236-B THROUGH CT6238-B

CURVE DATA

No.	R	Δ	T	L	V
(2)	3000.00	79°0′0"	288.87	575.96	45 MPH
(3)	3000.00	79°0′17"	288.74	575.71	45 MPH

50 0 50 100
1"=50′

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED DO - (HYBRID)
GRADE SEPARATION - CROSS ROAD
LAYOUT
SHEET 2 OF 3

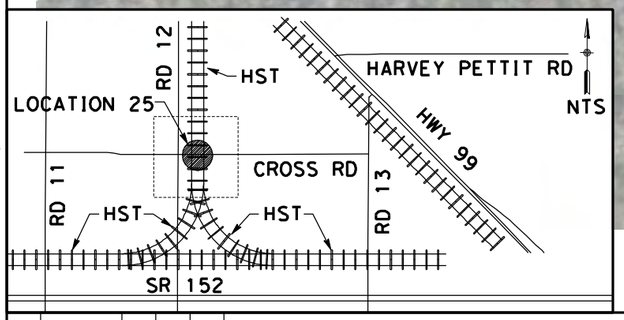
CONTRACT NO. HSR06-007
DRAWING NO. CT5239-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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4/27/2011 7:00:52 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 3 - hybrid\volume 1b - hybrid grade separation\Layout\CT5240-B.dgn
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LIMIT OF IMPACT
LIMITS OF DITCH
TOE OF FILL
STA 170+78.87
END MBGR
MATCH LINE STA 169+00
SEE DRAWING CT5239-B
REALIGNED CROSS ROAD
MBGR
LIMITS OF DITCH
PI 173+08.82
265.56'
S78°52'7"E
TOE OF FILL
EDGE OF PAVEMENT
STA 183+6.76
CONFORM
EXIST CROSS ROAD (TO REMAIN OPEN DURING CONSTRUCTION)
EXIST CROSS ROAD
N90°0'0"E
POE 183+06.76
PT 181+56.76
REMOVE BASE & SURFACING
LIMIT OF IMPACT



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6236-B THROUGH CT6238-B

CURVE DATA

No.	R	Δ	T	L	V
(3)	3000.00	79°0'17"	288.74	575.71	45 MPH
(4)	3000.00	78°52'7"	292.34	582.84	45 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

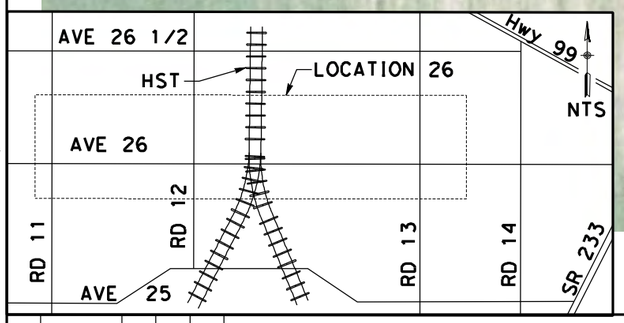
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED DO - (HYBRID)
GRADE SEPARATION - CROSS ROAD
LAYOUT
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5240-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6244-B THROUGH CT6246-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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Technical Services, Inc.
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Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
UNDERPASS - AVENUE 26 ALT 2
LAYOUT
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5246-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ayeled

℄ HST TRACK
A2-24MCDO
(SEE DRAWING T2384-A)

PC721+33.73

℄ HST TRACK
A2-24MCDO
(SEE DRAWING T2364-A)

℄ HST TRACK
A2-24WCDO
(SEE DRAWING T2424-A)

℄ HST TRACK
A2-24WCDO
(SEE DRAWING T2414-A)

HST R/W

RETAINING WALL

EDGE OF PAVEMENT

TOE OF CUT

STA 5256+21.53
END BRIDGE
SOUTHBOUND MCDO

PROPOSED AVENUE 26
UNDERPASS

STA 350+89.13
END BRIDGE
NORTHBOUND WCDO

PROPOSED AVENUE 26
UNDERPASS

LIMIT OF IMPACT

RETAINING WALL

EDGE OF PAVEMENT

TOE OF CUT

AVENUE 26

MATCH LINE STA 157+00
SEE DRAWING CT5246-B

MATCH LINE STA 172+00
SEE DRAWING CT5248-B

2832.55'
N89°48'20"E

TOE OF CUT

RETAINING WALL

EDGE OF PAVEMENT

STA 5255+25.53
BEGIN BRIDGE
SOUTHBOUND MCDO

STA 349+93.13
BEGIN BRIDGE
NORTHBOUND WCDO

EDGE OF PAVEMENT

RETAINING WALL

LIMIT OF IMPACT

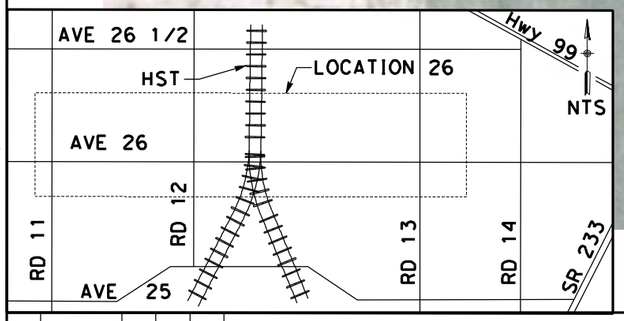
TOE OF CUT

ST5253+61.04

ST348+32.82

ST715+47.65

ST5253+02.51



NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6244-B THROUGH CT6246-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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Sacramento, CA 95811

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

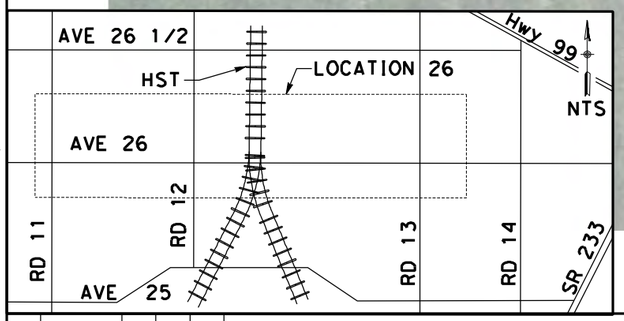
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
UNDERPASS - AVENUE 26 ALT 2
LAYOUT
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5247-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ayeled





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6244-B THROUGH CT6246-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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Sacramento, CA 95811
CH2MHILL

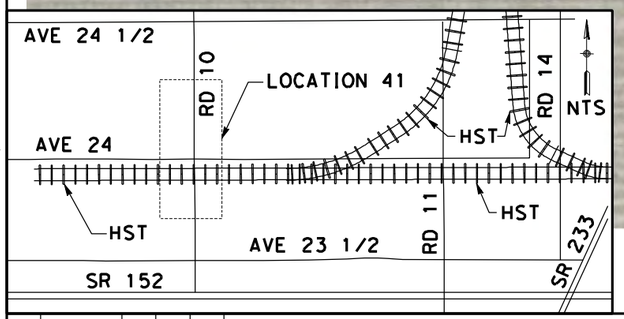
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
UNDERPASS - AVENUE 26 ALT 2
LAYOUT
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5248-B
SCALE AS SHOWN
SHEET NO. ### OF ###





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6247-B THROUGH CT6249-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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Sacramento, CA 95811

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAINLINE/WYE DO - (HYBRID)
GRADE SEPARATION - ROAD 10 ALONG EXIST ALT 2
LAYOUT
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5249-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ayelad

℄ HST TRACK
A2-24WCDO
(SEE DRAWING T2421-A)

℄ HST TRACK
A2-24WCDO
(SEE DRAWING T2411-A)

℄ HST TRACKS
HYBRID
(SEE DRAWING T1095-A)

HST R/W

LIMIT OF IMPACT

STA 192+64.68
BEGIN MBGR

STA 192+64.68
END BRIDGE

TOE OF FILL

LIMITS OF DITCH

STA 188+94.04
END MBGR

STA 188+94.04
BEGIN BRIDGE

LIMITS OF DITCH

TOE OF FILL

SC163+23.62

SC532+60.96

SC534+80.96

SC537+00.96

PT168+73.62

PT169+60.21

PROPOSED ROAD 10

1494.69'
N0°1'44"W

1114.32'
N0°26'10"W

MBGR

EDGE OF PAVEMENT

LIMITS OF DITCH

TOE OF FILL

LIMIT OF IMPACT

PROPOSED
ROAD 10 OVERHEAD

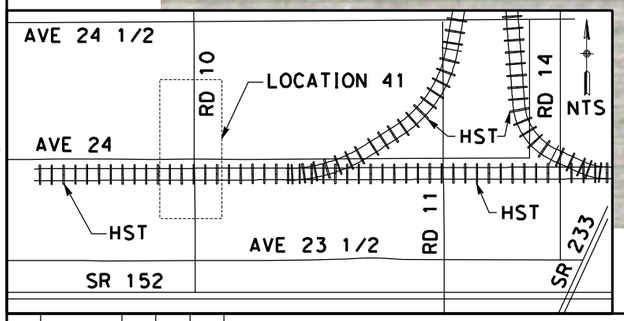
MBGR

LIMITS OF DITCH

TOE OF FILL

SEE DRAWING CT5249-B
MATCH LINE STA 184+00

MATCH LINE STA 198+00
SEE DRAWING CT5251-B



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6247-B THROUGH CT6249-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

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Sacramento, CA 95811

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CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

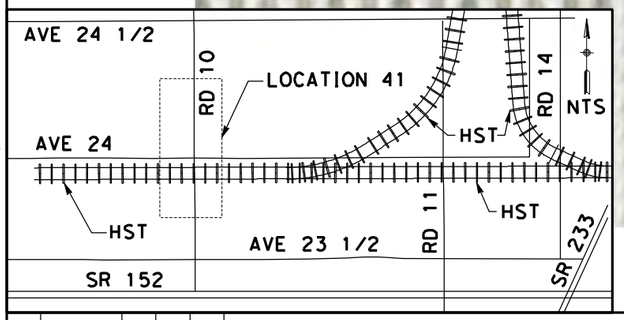
BNSF MAINLINE/WYE DO - (HYBRID)
GRADE SEPARATION - ROAD 10 ALONG EXIST ALT 2
LAYOUT
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5250-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ayeled





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT6247-B THROUGH CT6249-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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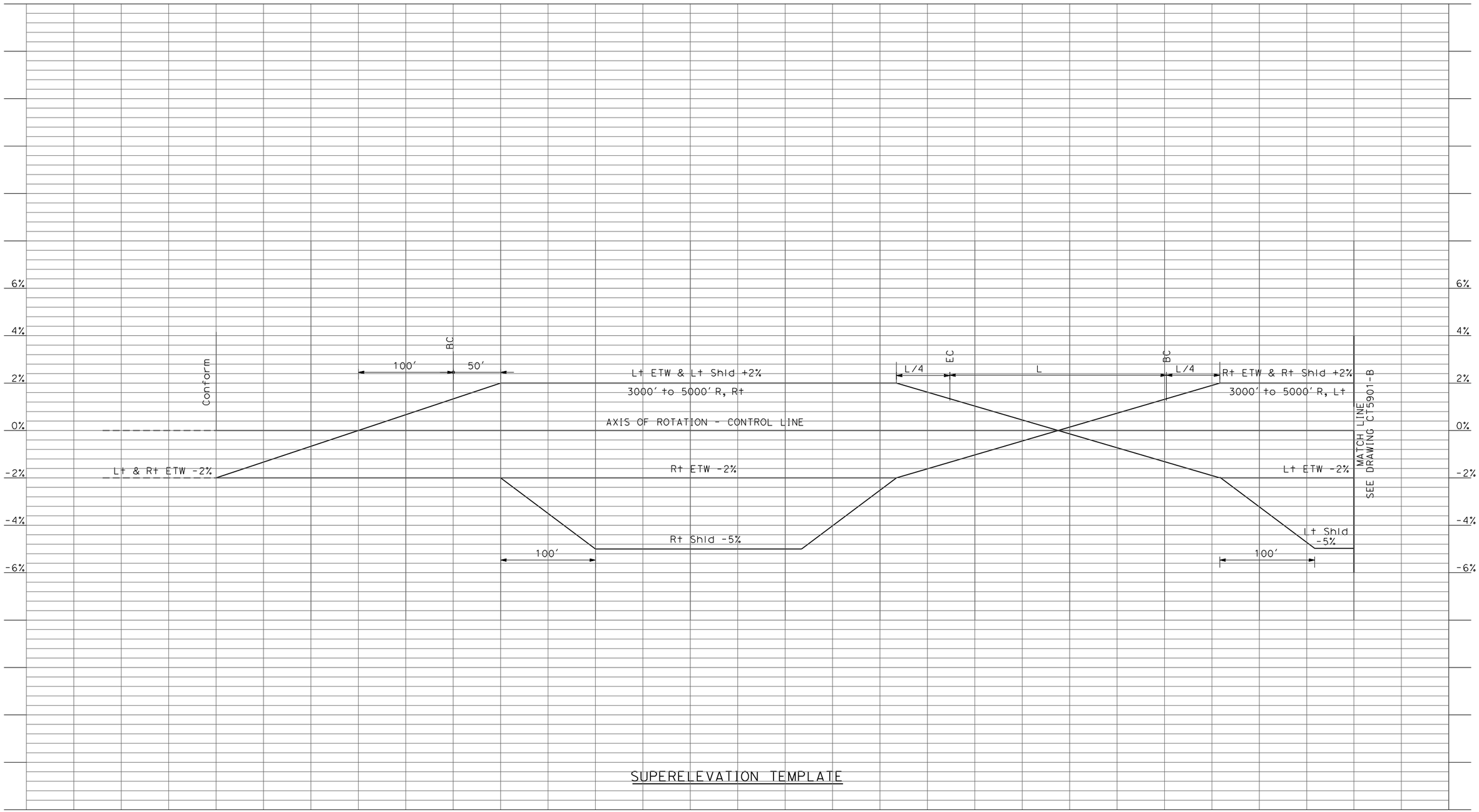
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAINLINE/WYE DO - (HYBRID)
GRADE SEPARATION - ROAD 10 ALONG EXIST ALT 2
LAYOUT
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT5251-B
SCALE AS SHOWN
SHEET NO. ### OF ###



SUPERELEVATION TEMPLATE

REV	DATE	BY	CHK	APP	DESCRIPTION

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DRAWN BY: A. TRINH
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

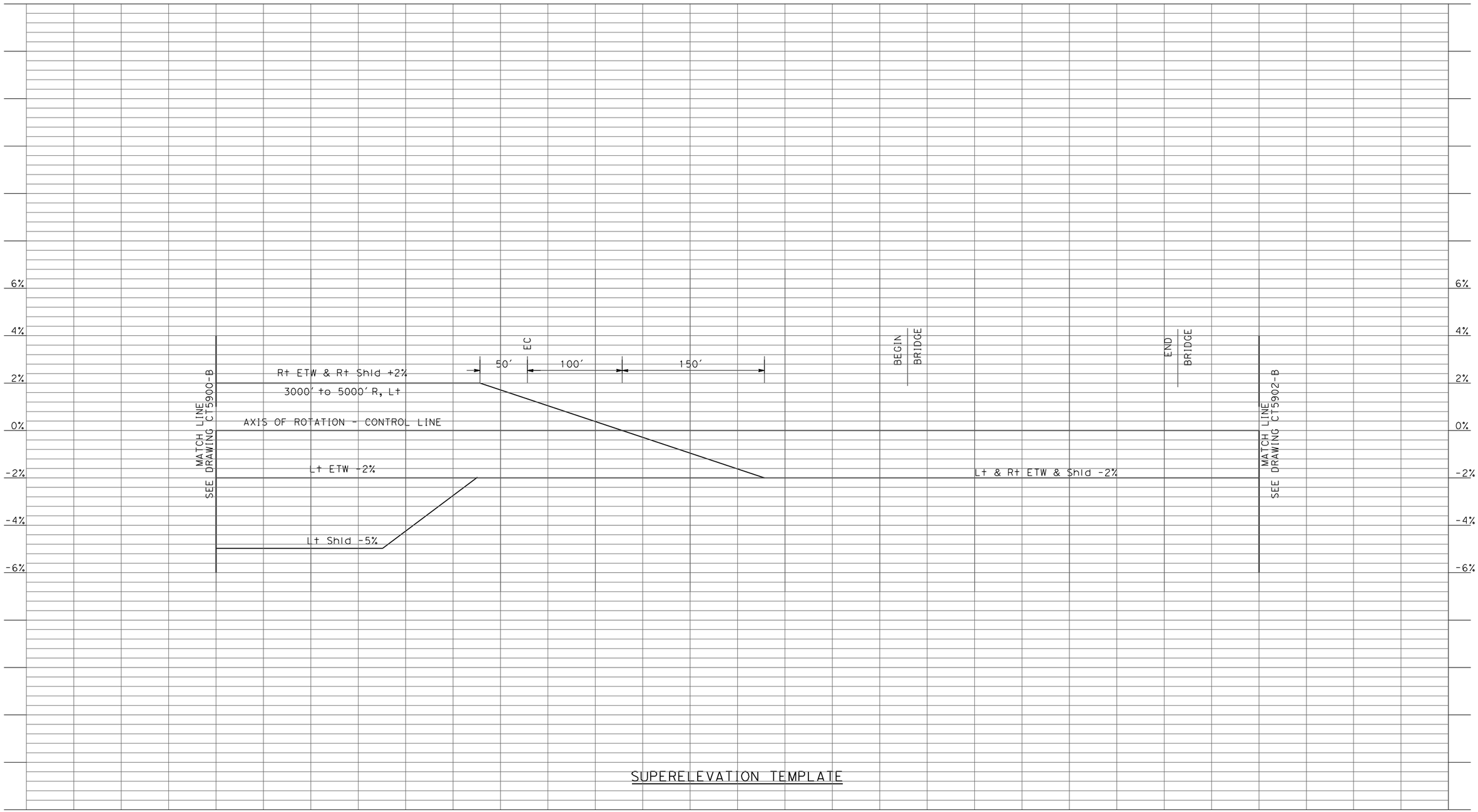
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Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 - (HYBRID)
GRADE SEPARATION
SUPERELEVATION TEMPLATE
SHEET 1 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT5900-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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SUPERELEVATION TEMPLATE

REV	DATE	BY	CHK	APP	DESCRIPTION

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DRAWN BY: A. TRINH
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

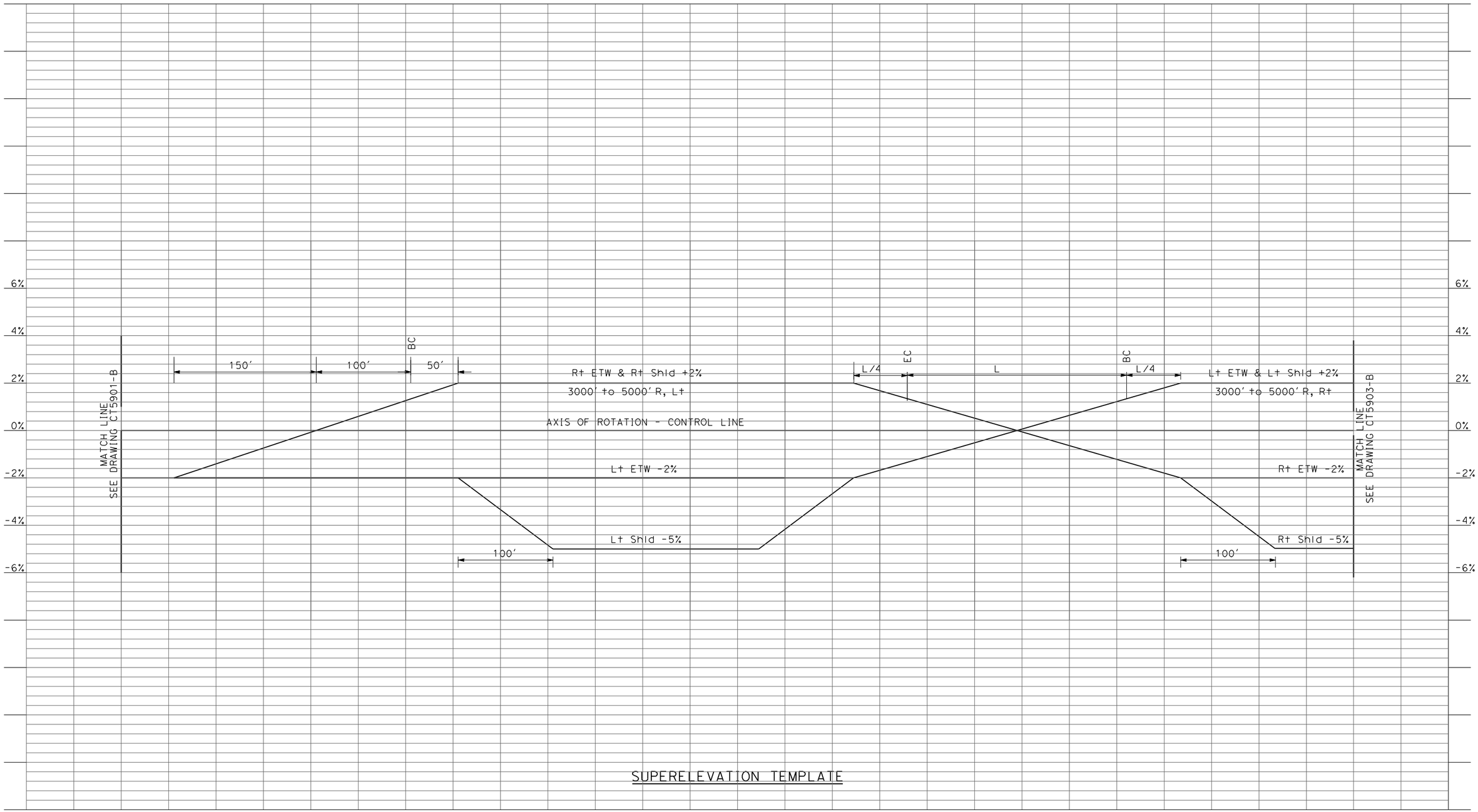
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Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 - (HYBRID)
GRADE SEPARATION
SUPERELEVATION TEMPLATE
SHEET 2 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT5901-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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SUPERELEVATION TEMPLATE

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DRAWN BY: A. TRINH
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

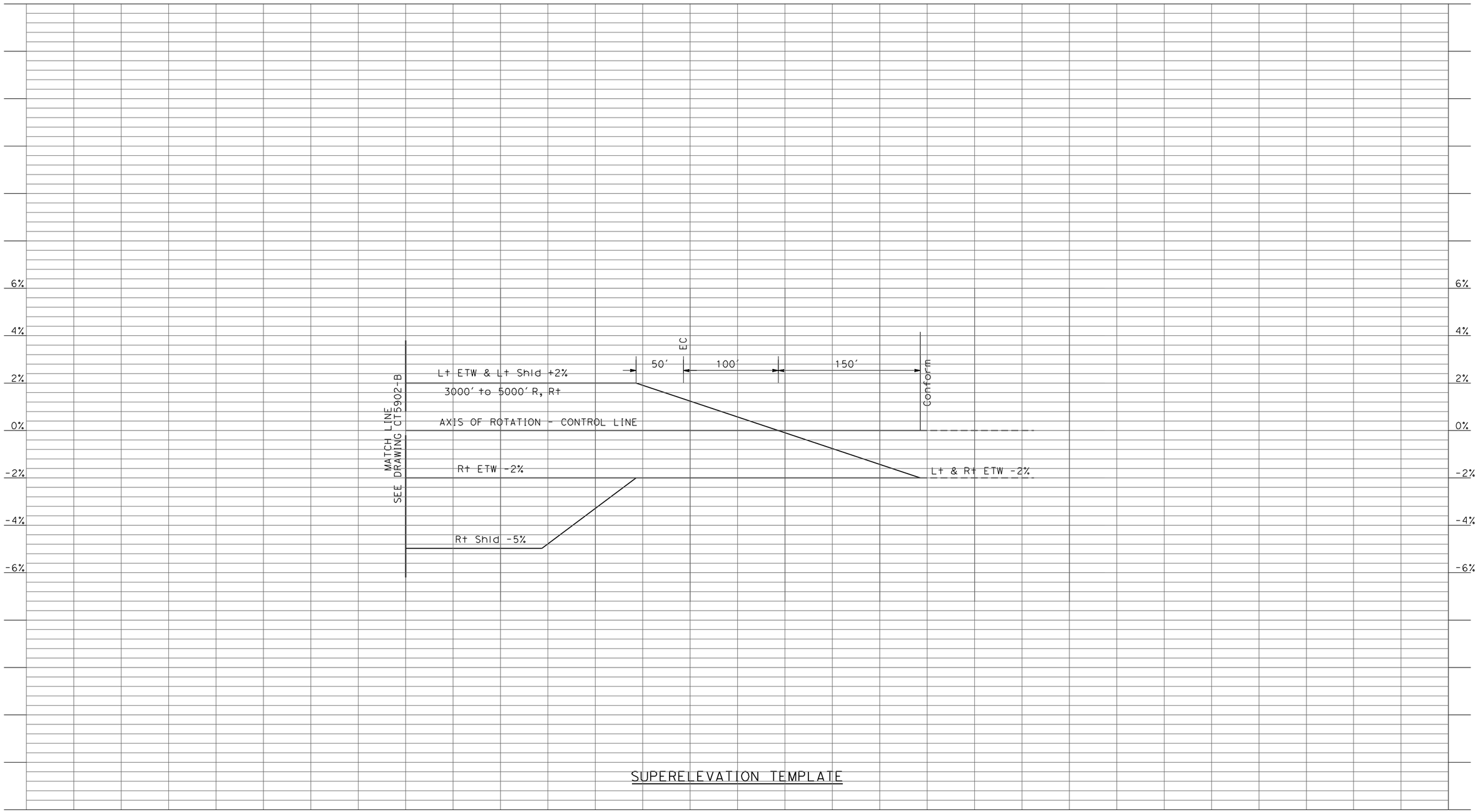
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 - (HYBRID)
GRADE SEPARATION
SUPERELEVATION TEMPLATE
SHEET 3 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT5902-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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SUPERELEVATION TEMPLATE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. LI
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IN CHARGE A. BOONE
DATE 04/29/2011

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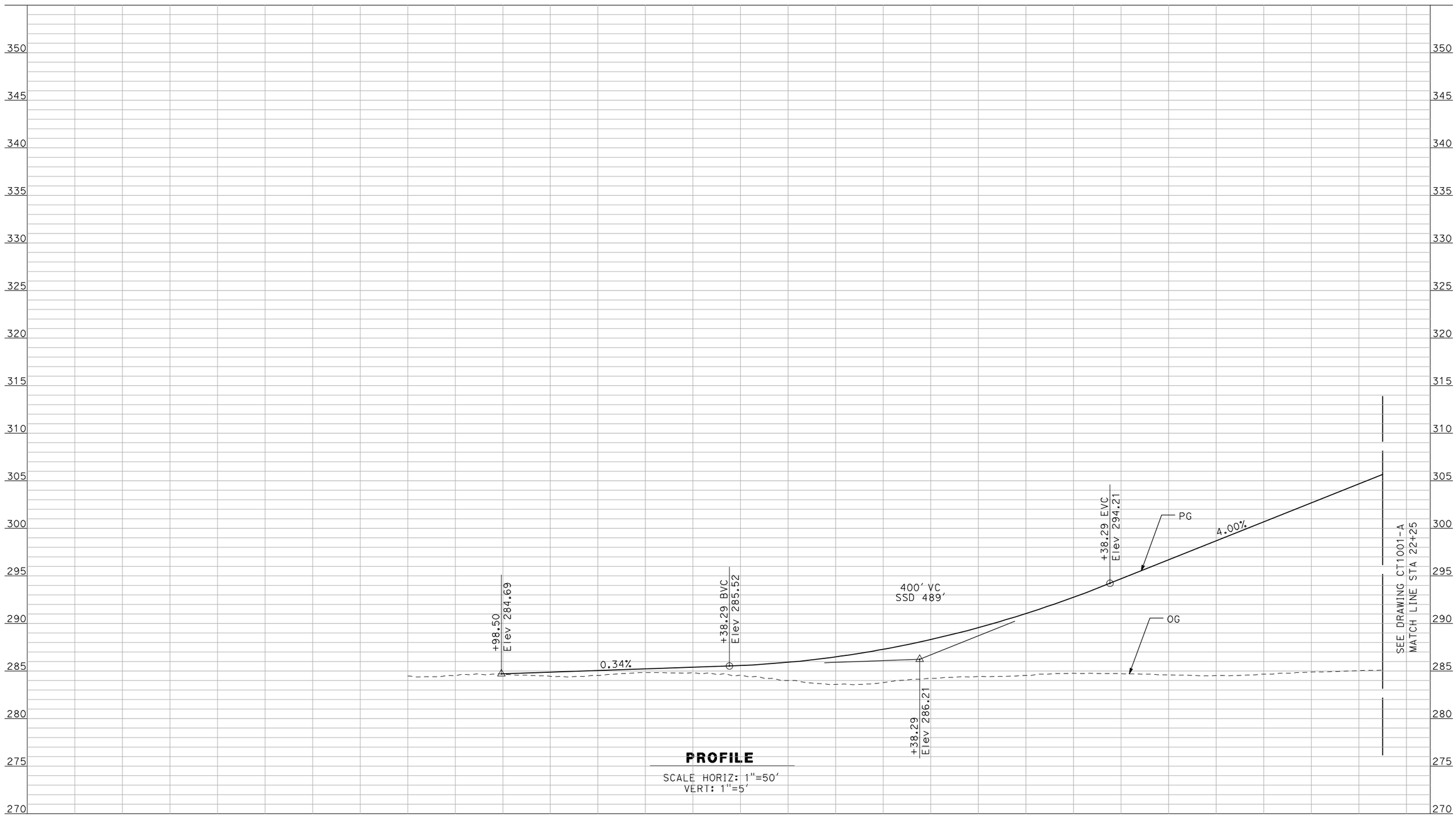
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR99 - (HYBRID)
GRADE SEPARATION
SUPERELEVATION TEMPLATE
SHEET 4 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT5903-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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oyeled

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: R. GIBSON
DRAWN BY: F. DEMARCO
CHECKED BY: J. ZANDIAN
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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CH2MHILL

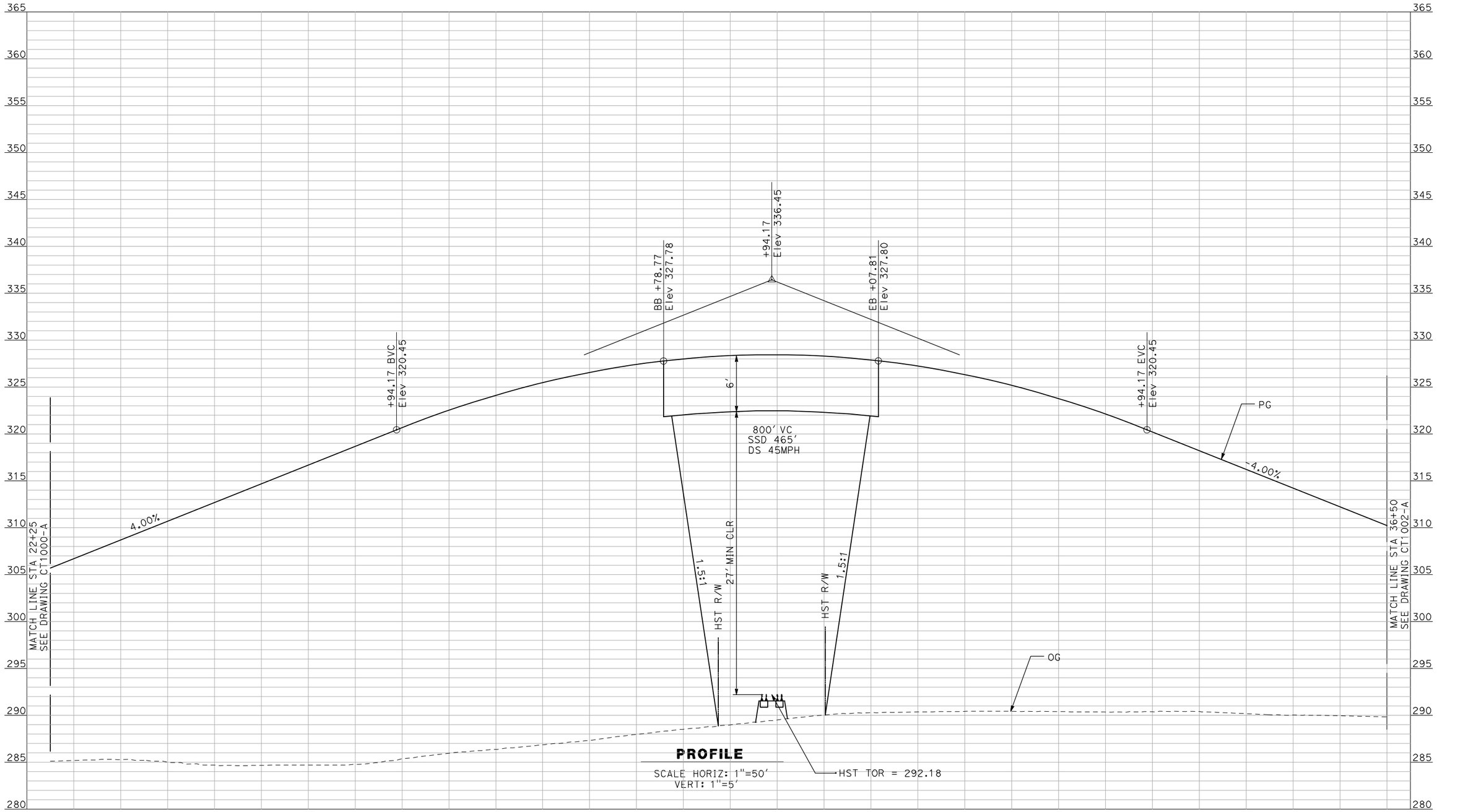
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 9
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1000-A
SCALE AS SHOWN
SHEET NO. ###OF ###

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5/1/2011 1:42:04 PM
GibsonR1



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY F. DEMARCO
CHECKED BY J. ZANDIAN
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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CH2MHILL

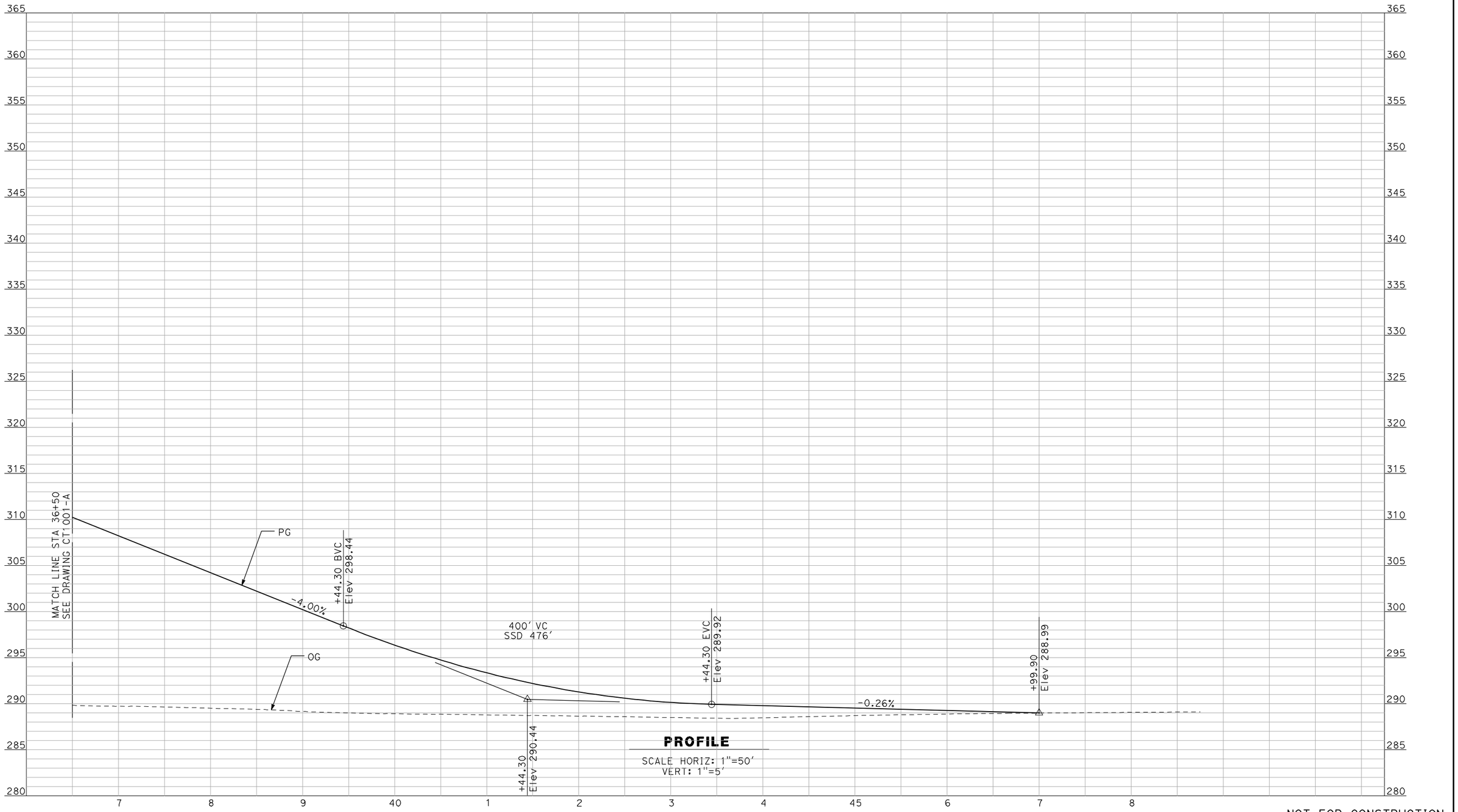
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 9
PROFILE
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1001-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY F. DEMARCO
CHECKED BY J. ZANDIAN
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 9
PROFILE
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1002-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY: R. GIBSON
DRAWN BY: F. DEMARCO
CHECKED BY: J. ZANDIAN
IN CHARGE: A. BOONE
DATE: 06/30/2011

RECORD SET
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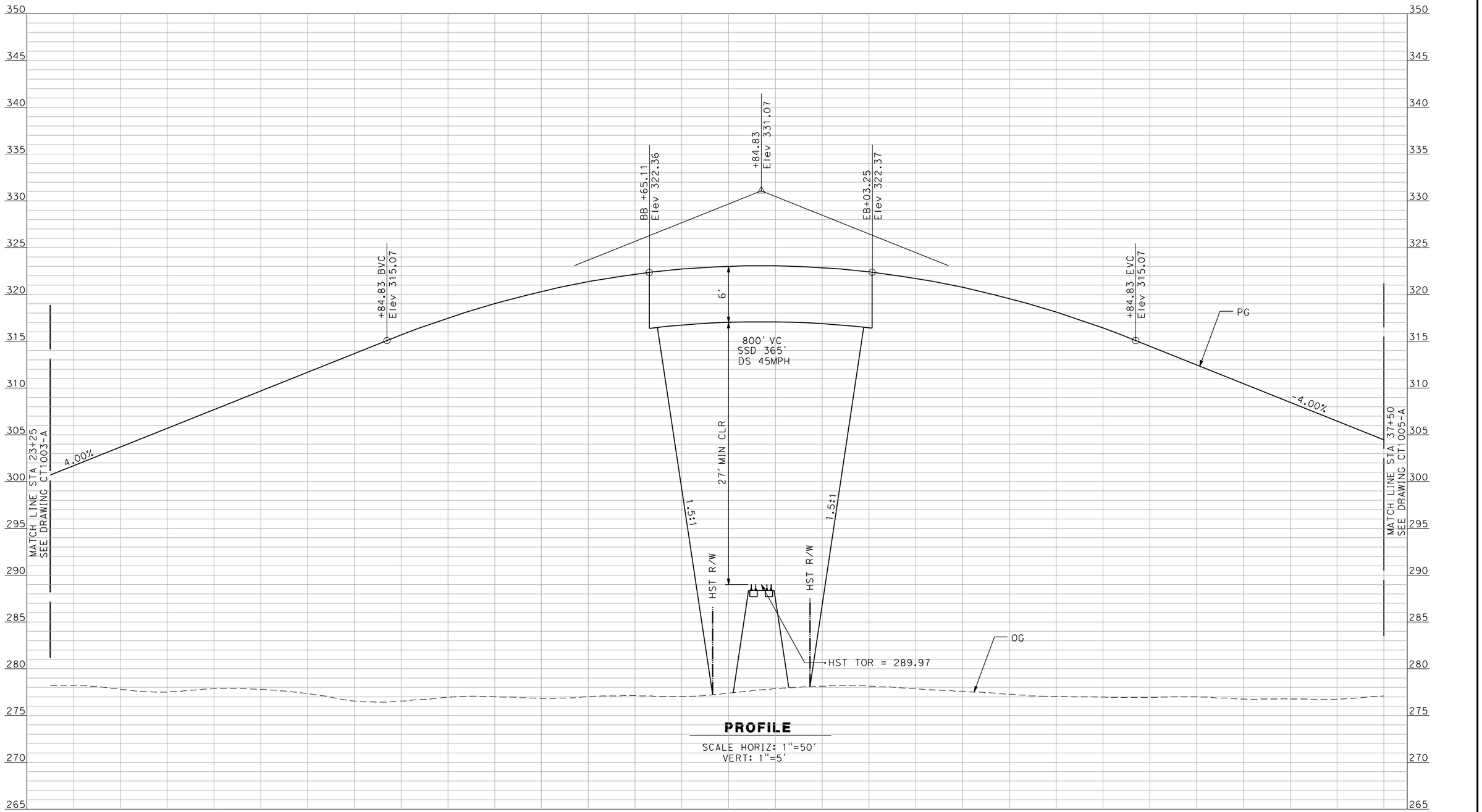
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Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 10
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1003-A
SCALE AS SHOWN
SHEET NO. ### OF ###



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY: R. GIBSON
DRAWN BY: F. DEMARCO
CHECKED BY: J. ZANDIAN
IN CHARGE: A. BOONE
DATE: 06/30/2011

RECORD SET
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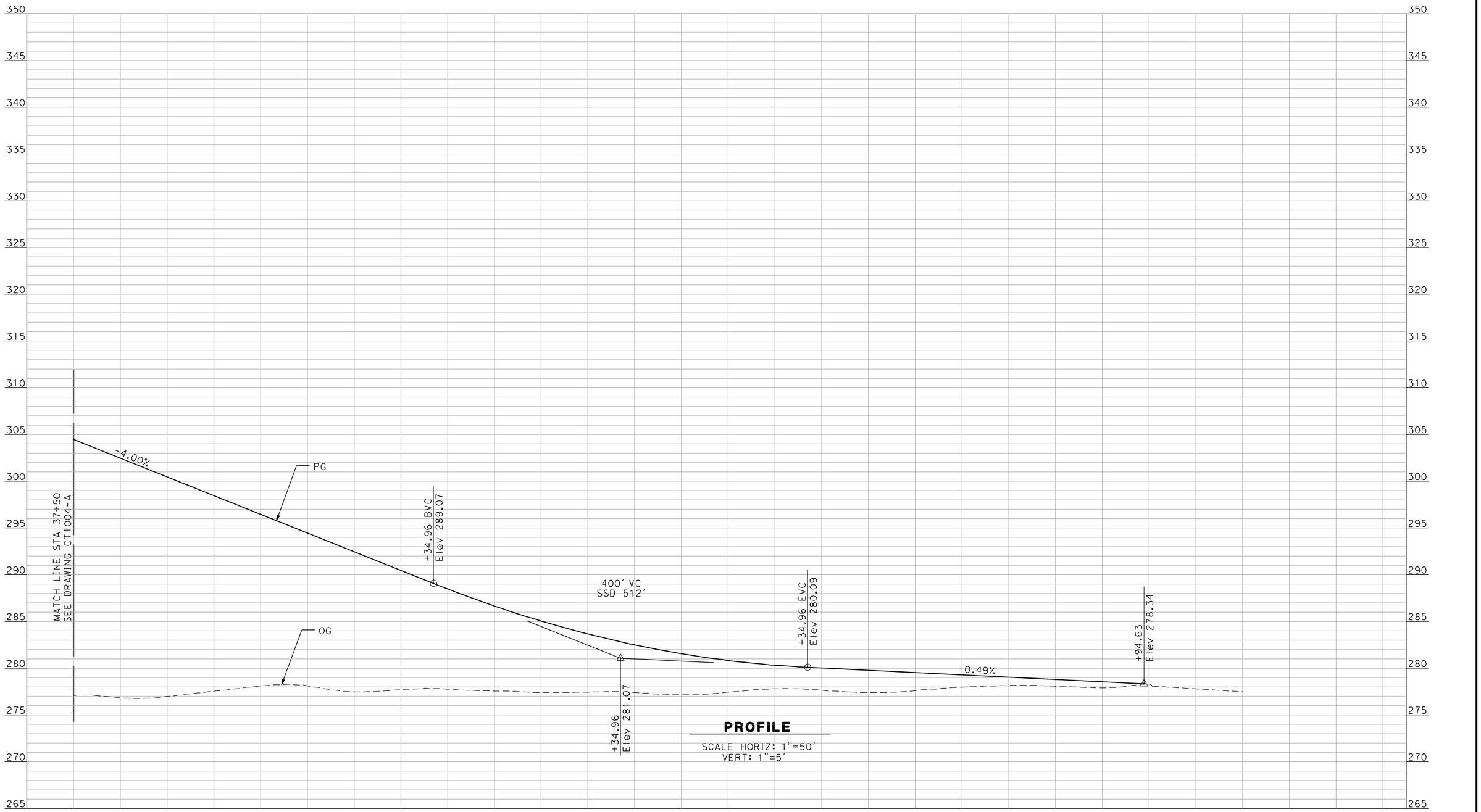
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 10
PROFILE
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1004-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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PROFILE

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VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY: R. GIBSON
DRAWN BY: F. DEMARCO
CHECKED BY: J. ZANDIAN
IN CHARGE: A. BOONE
DATE: 06/30/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

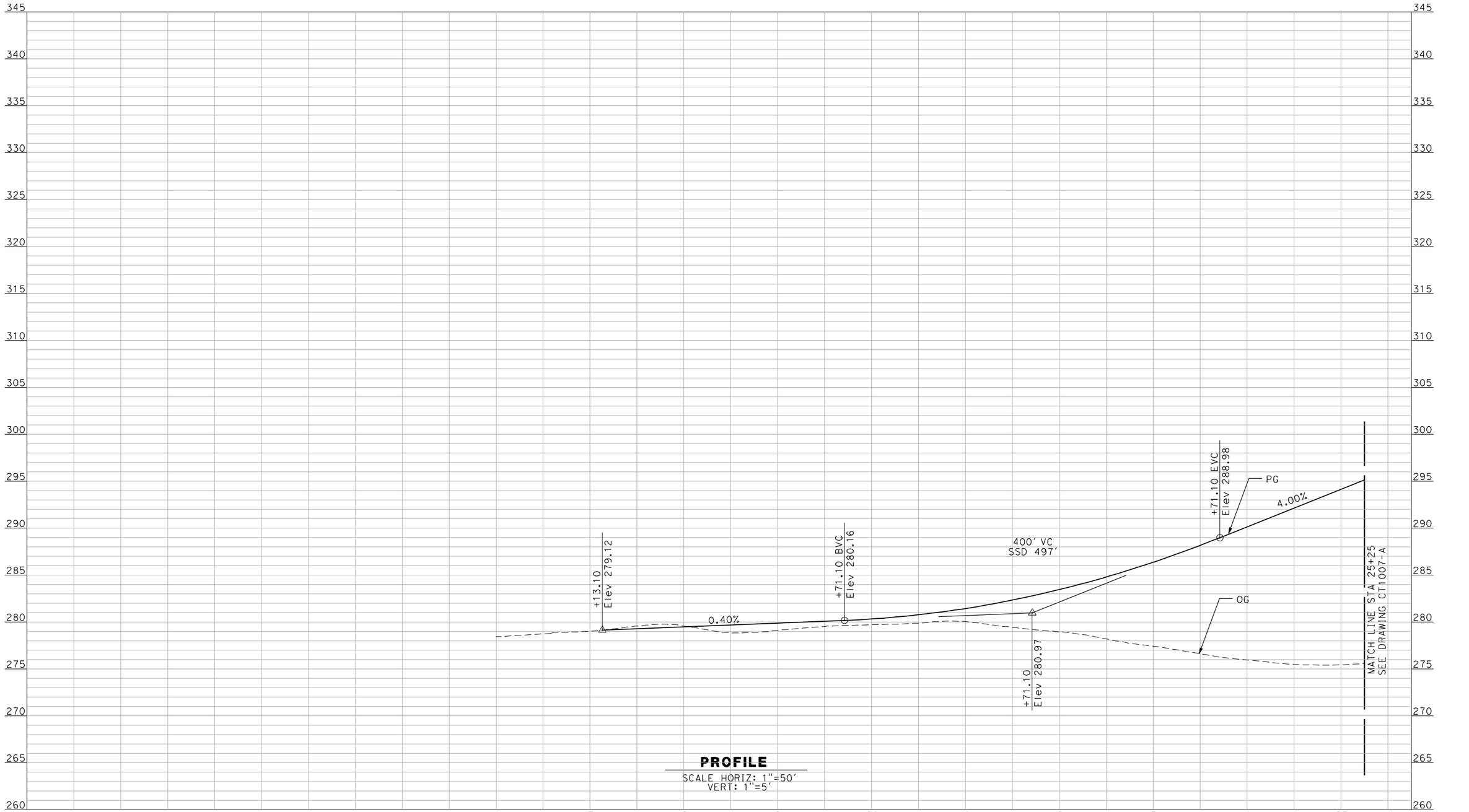
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 10
PROFILE
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1005-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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PROFILE

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1	12/28/11	RG			

DESIGNED BY: R. GIBSON
DRAWN BY: F. DEMARCO
CHECKED BY: J. ZANDIAN
IN CHARGE: A. BOONE
DATE: 06/30/2011

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CH2MHILL

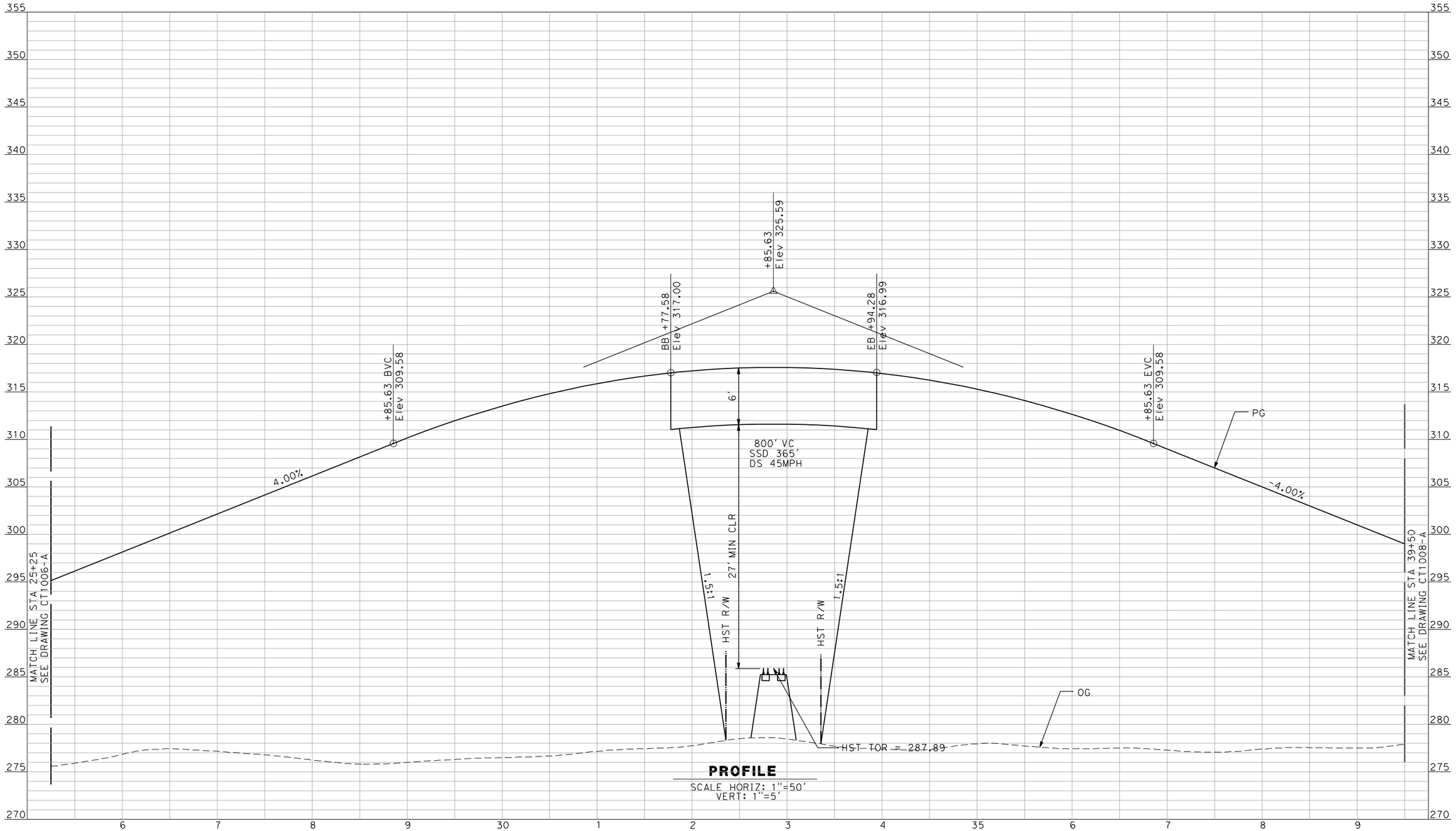
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 11
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1006-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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GibsonR1



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VERT: 1"=5'

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1	12/28/11	RG			

DESIGNED BY: R. GIBSON
DRAWN BY: F. DEMARCO
CHECKED BY: J. ZANDIAN
IN CHARGE: A. BOONE
DATE: 06/30/2011

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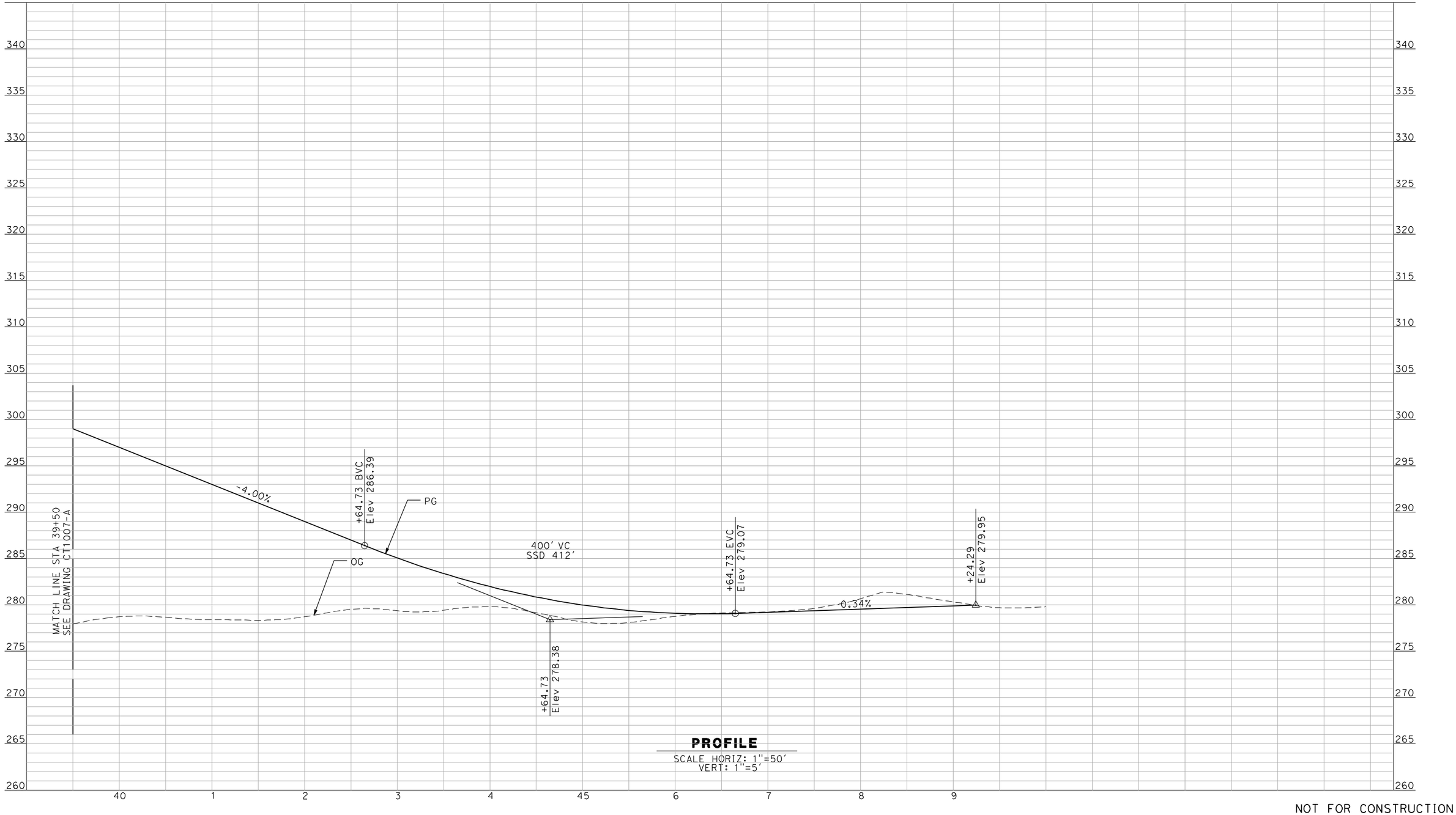
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 11
PROFILE
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1007-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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GibsonR1



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY: R. GIBSON
DRAWN BY: F. DEMARCO
CHECKED BY: J. ZANDIAN
IN CHARGE: A. BOONE
DATE: 06/30/2011

RECORD SET
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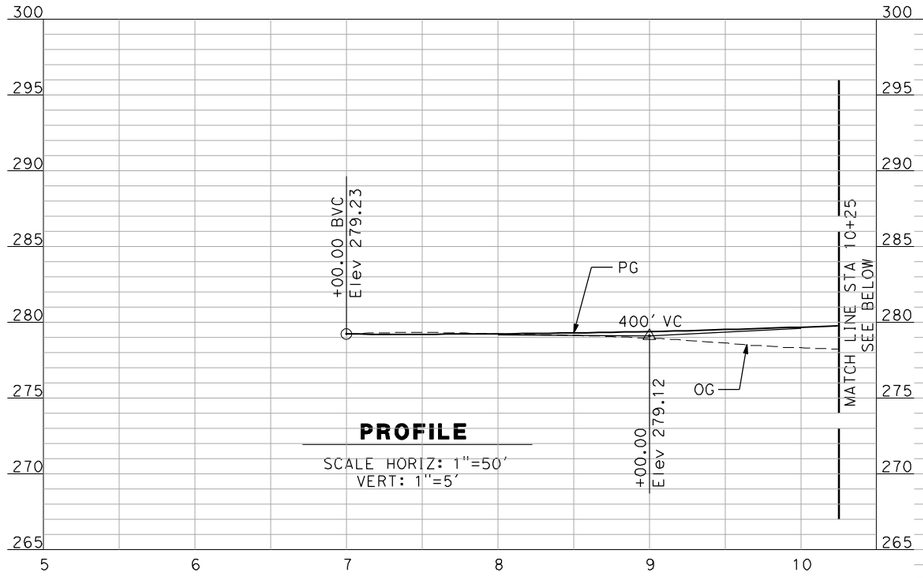
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

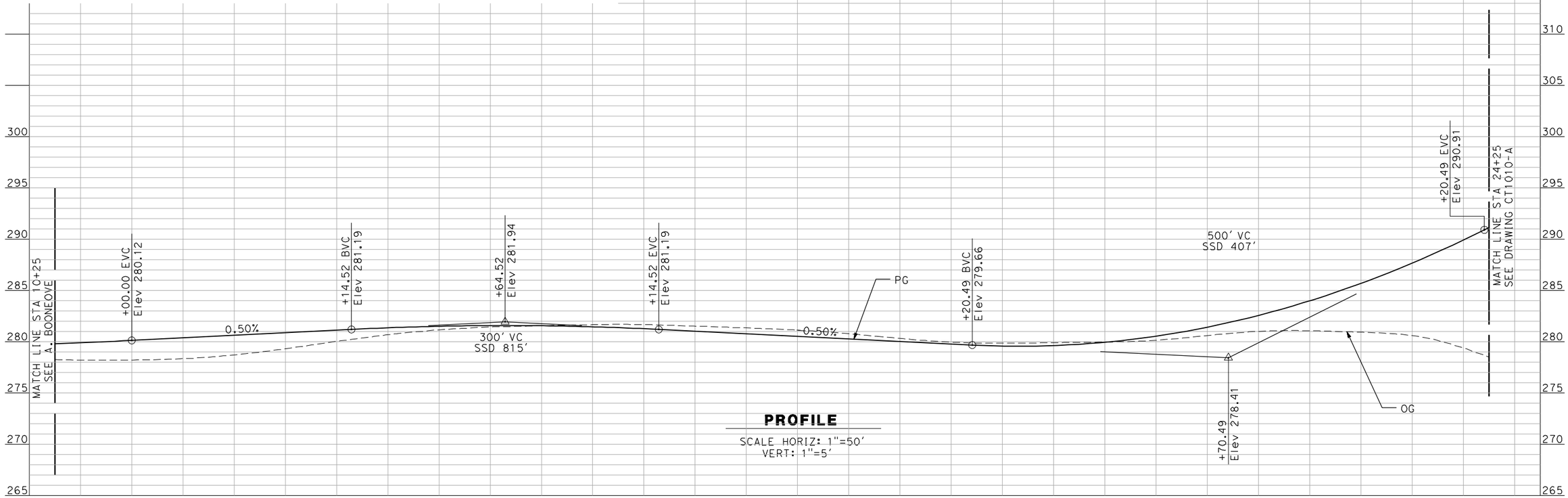
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 11
PROFILE
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1008-A
SCALE AS SHOWN
SHEET NO. ### OF ###



PROFILE

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VERT: 1"=5'



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY: R. GIBSON
DRAWN BY: F. DEMARCO
CHECKED BY: J. ZANDIAN
IN CHARGE: A. BOONE
DATE: 06/30/2011

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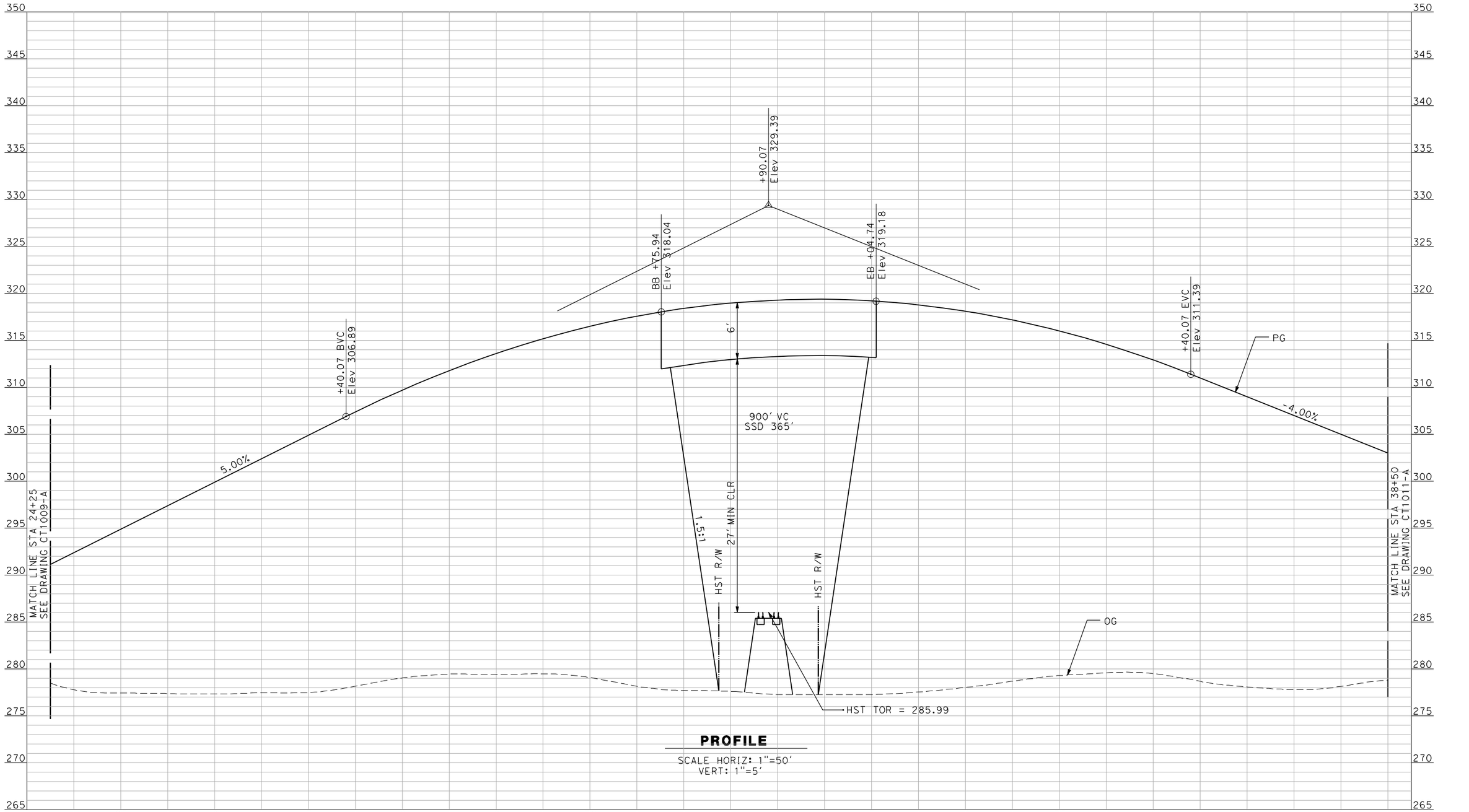
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 12
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1009-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY: R. GIBSON
DRAWN BY: F. DEMARCO
CHECKED BY: J. ZANDIAN
IN CHARGE: A. BOONE
DATE: 06/30/2011

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NOT FOR CONSTRUCTION

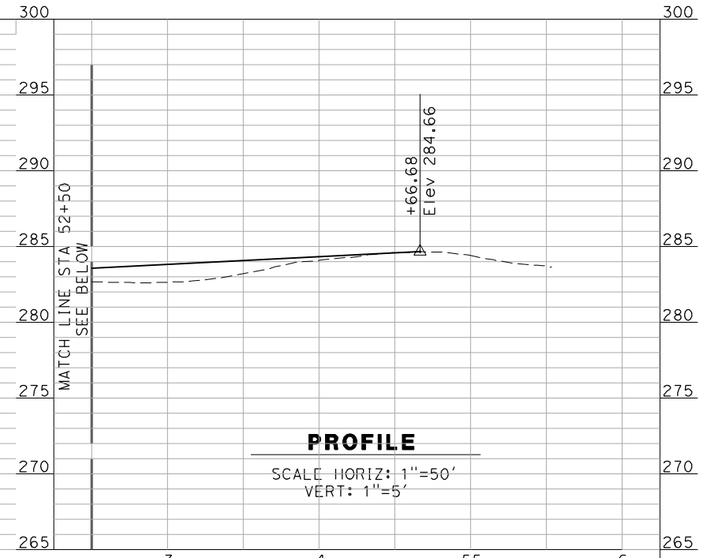
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 12
PROFILE
SHEET 2 OF 3

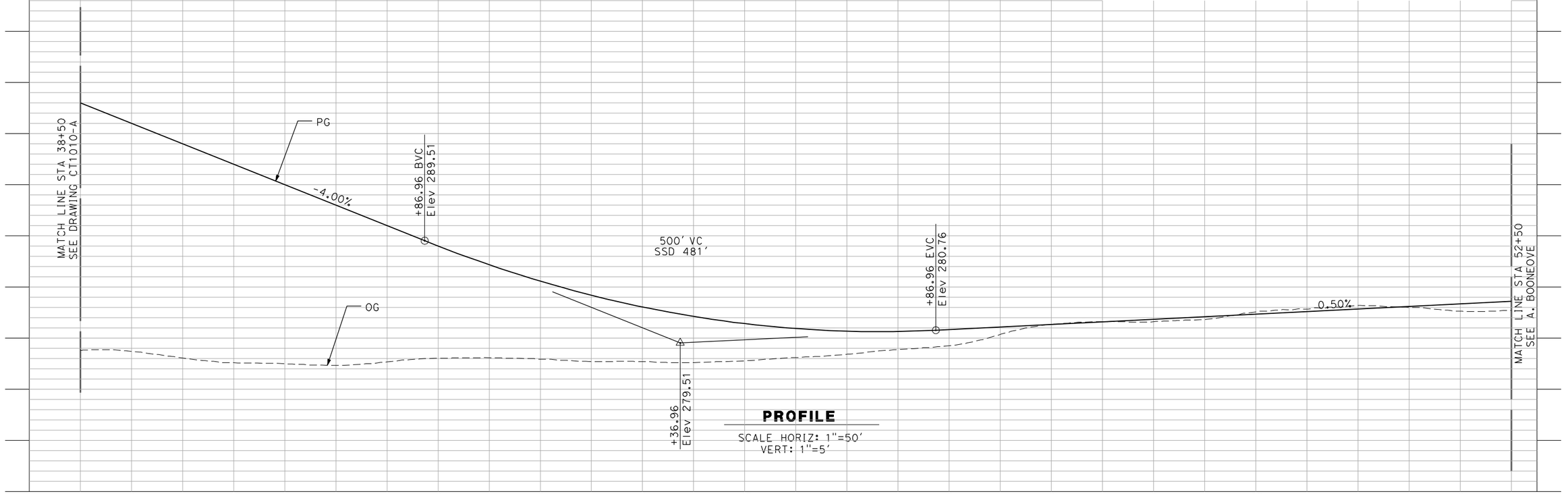
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SHEET NO. ### OF ###

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY: R. GIBSON
DRAWN BY: F. DEMARCO
CHECKED BY: J. ZANDIAN
IN CHARGE: A. BOONE
DATE: 06/30/2011

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CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

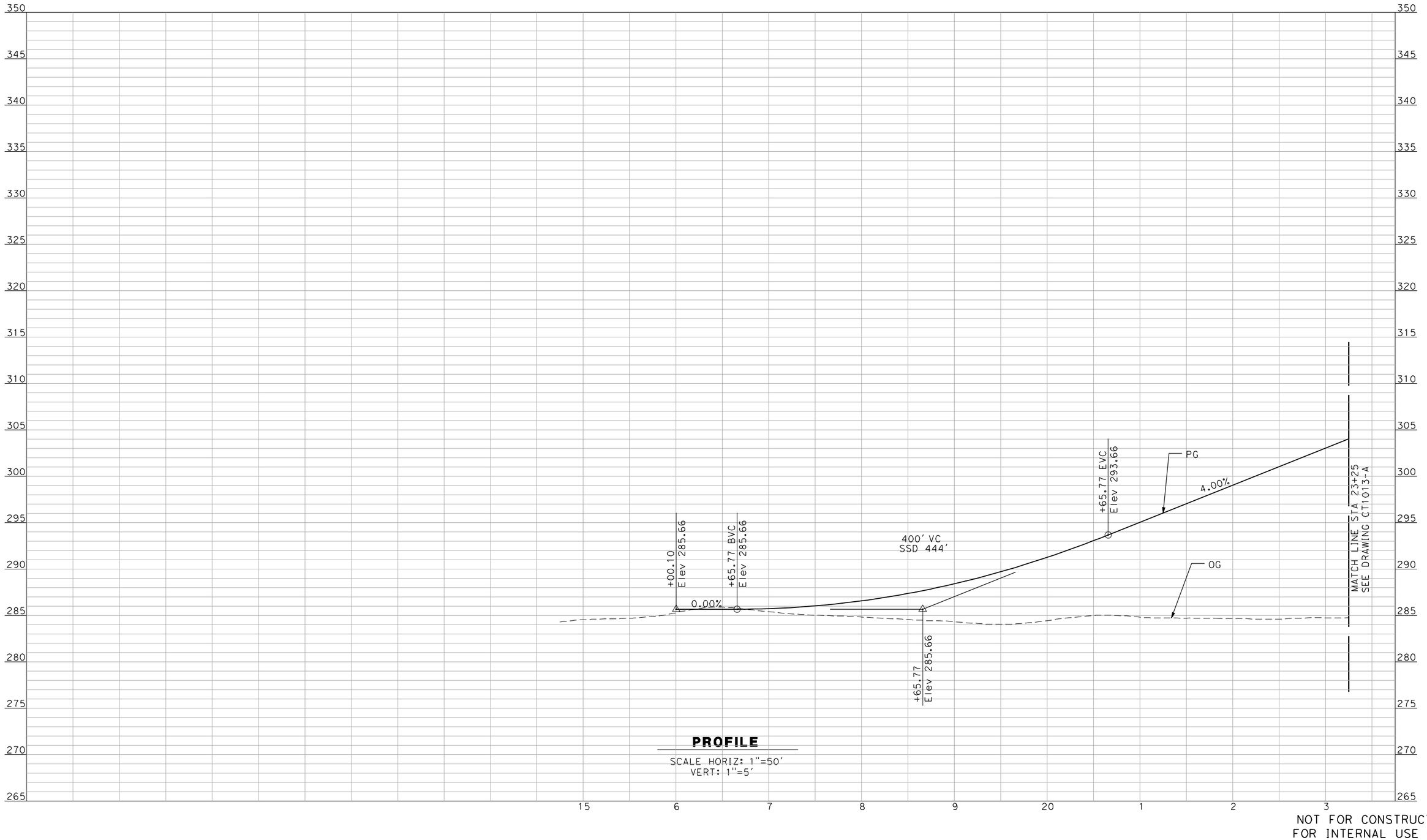
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 12
PROFILE
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1011-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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GibsonR1



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

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DATE: 06/30/2011

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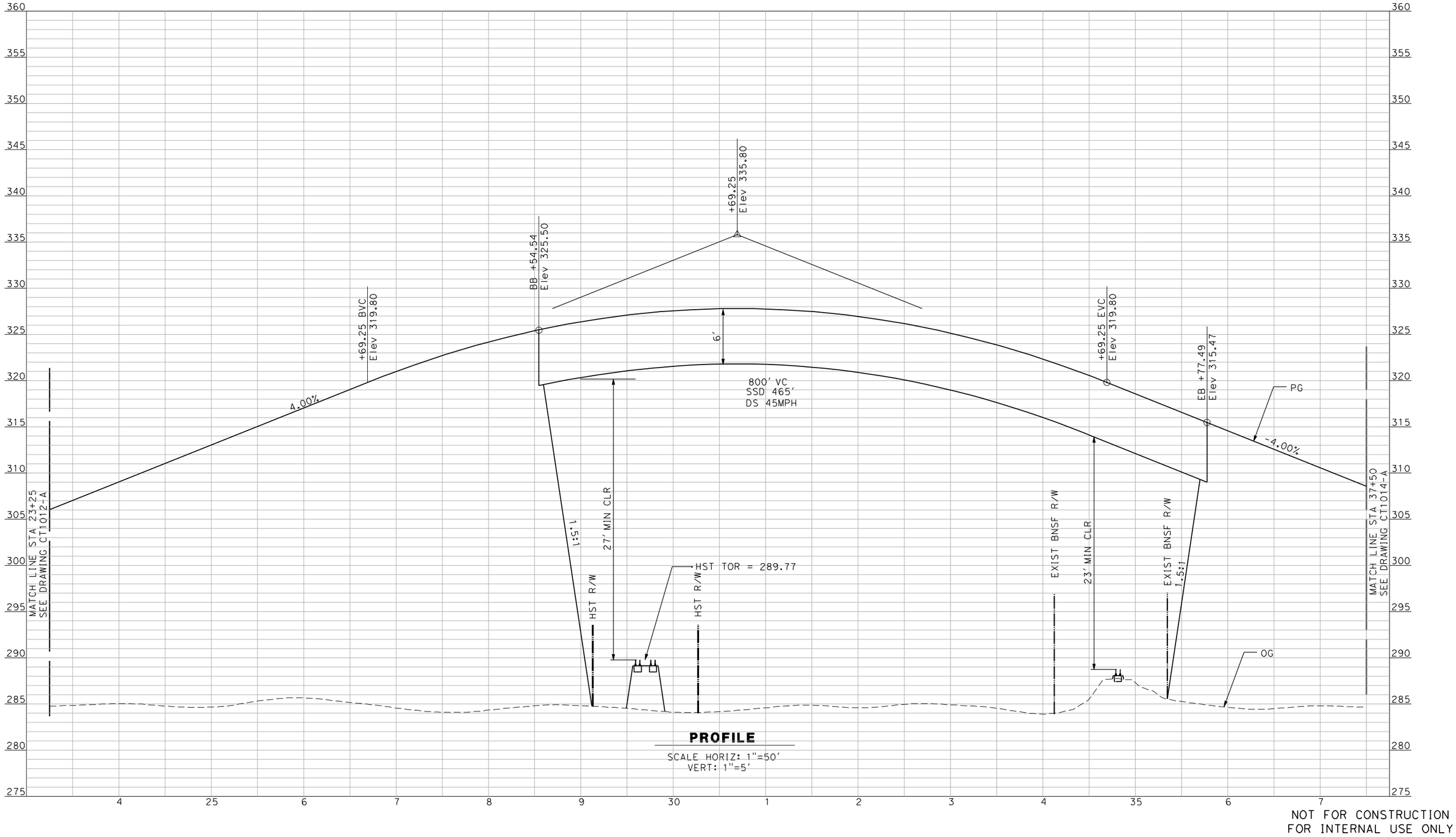
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 13
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1012-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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PROFILE

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VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY: R. GIBSON
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IN CHARGE: A. BOONE
DATE: 06/30/2011

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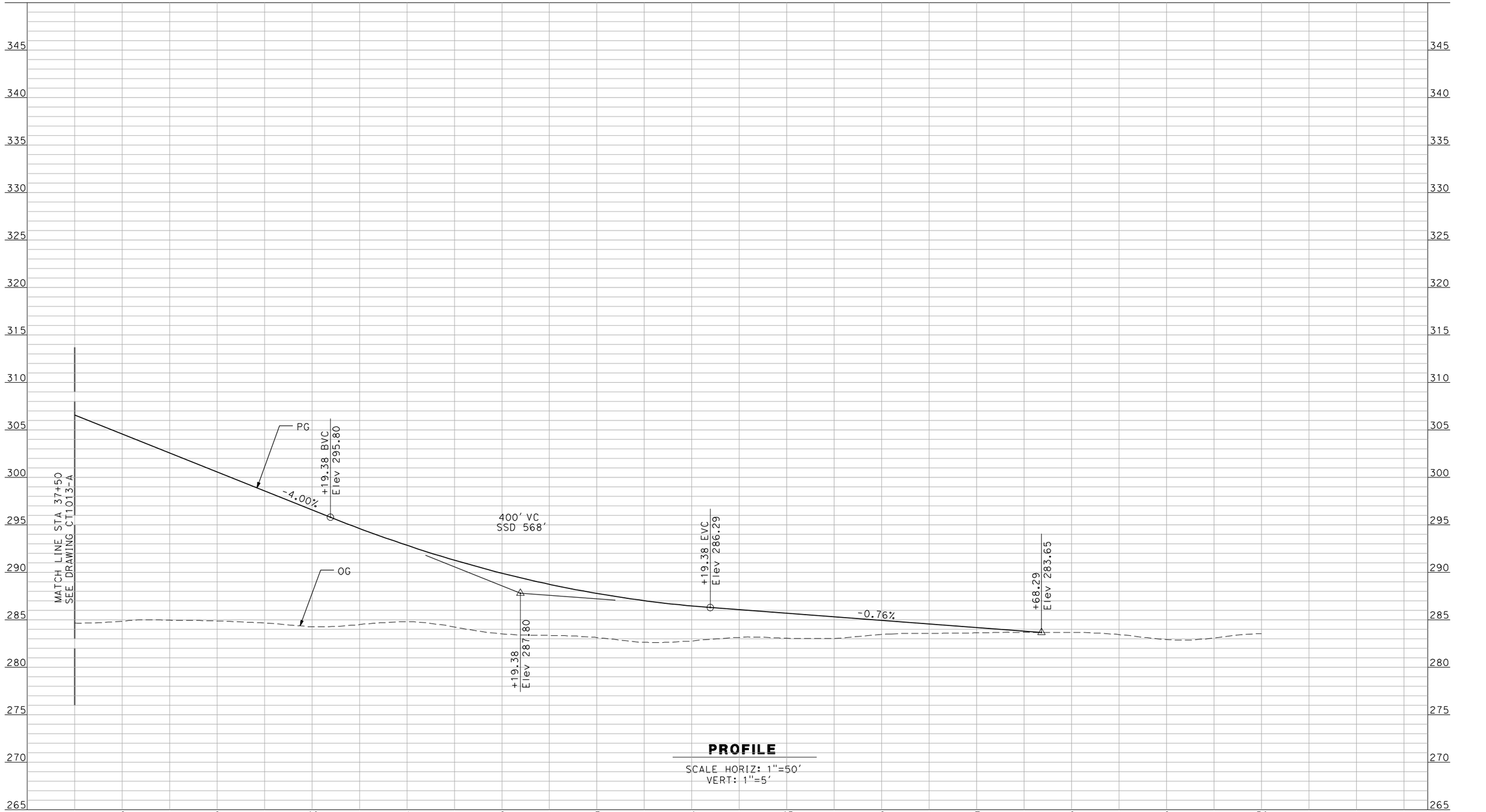
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 13
PROFILE
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1013-A
SCALE AS SHOWN
SHEET NO. ### OF ###



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY: R. GIBSON
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

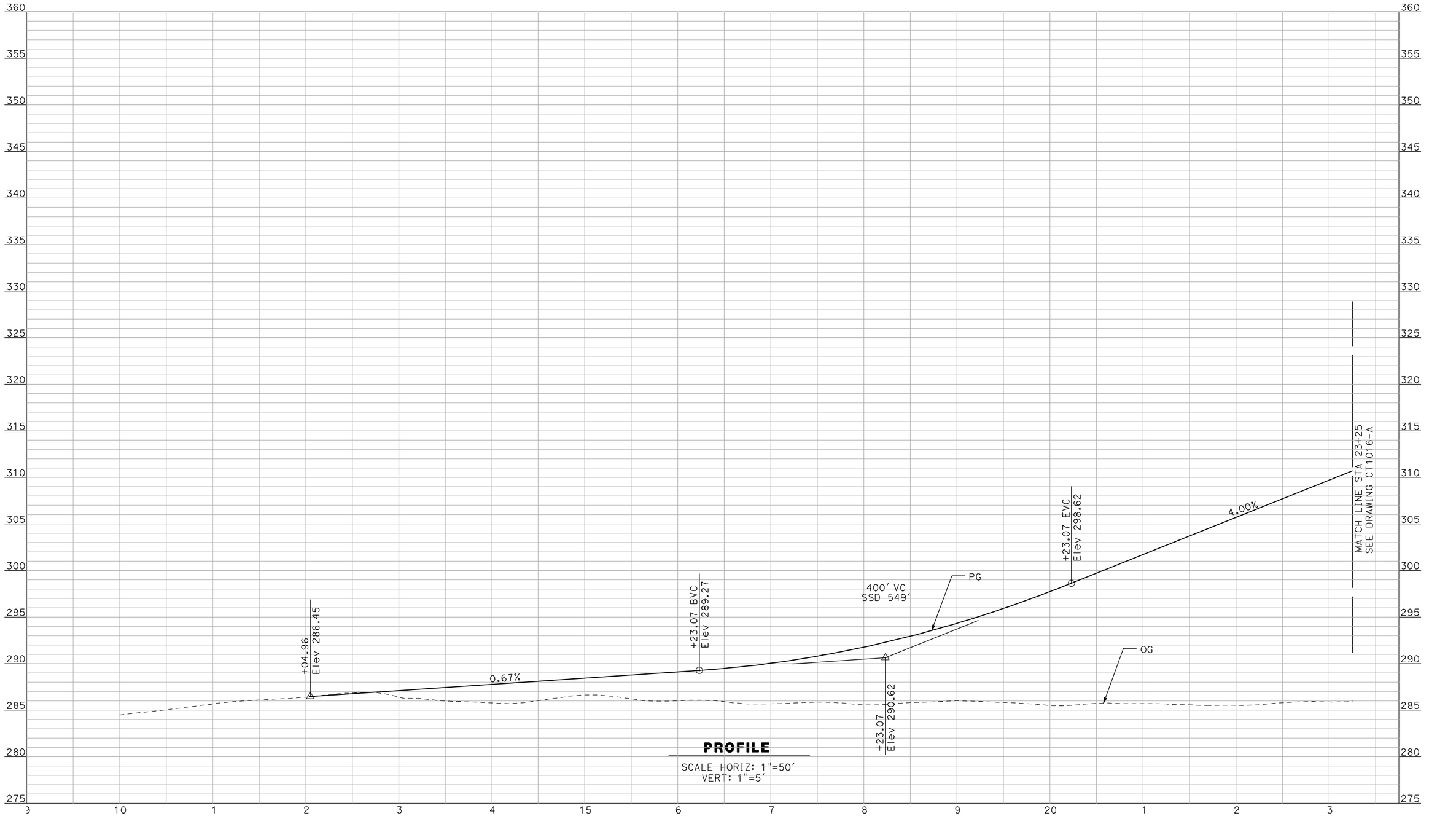
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 13
PROFILE
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1014-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: R. GIBSON
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DATE: 04/29/2011

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CH2MHILL

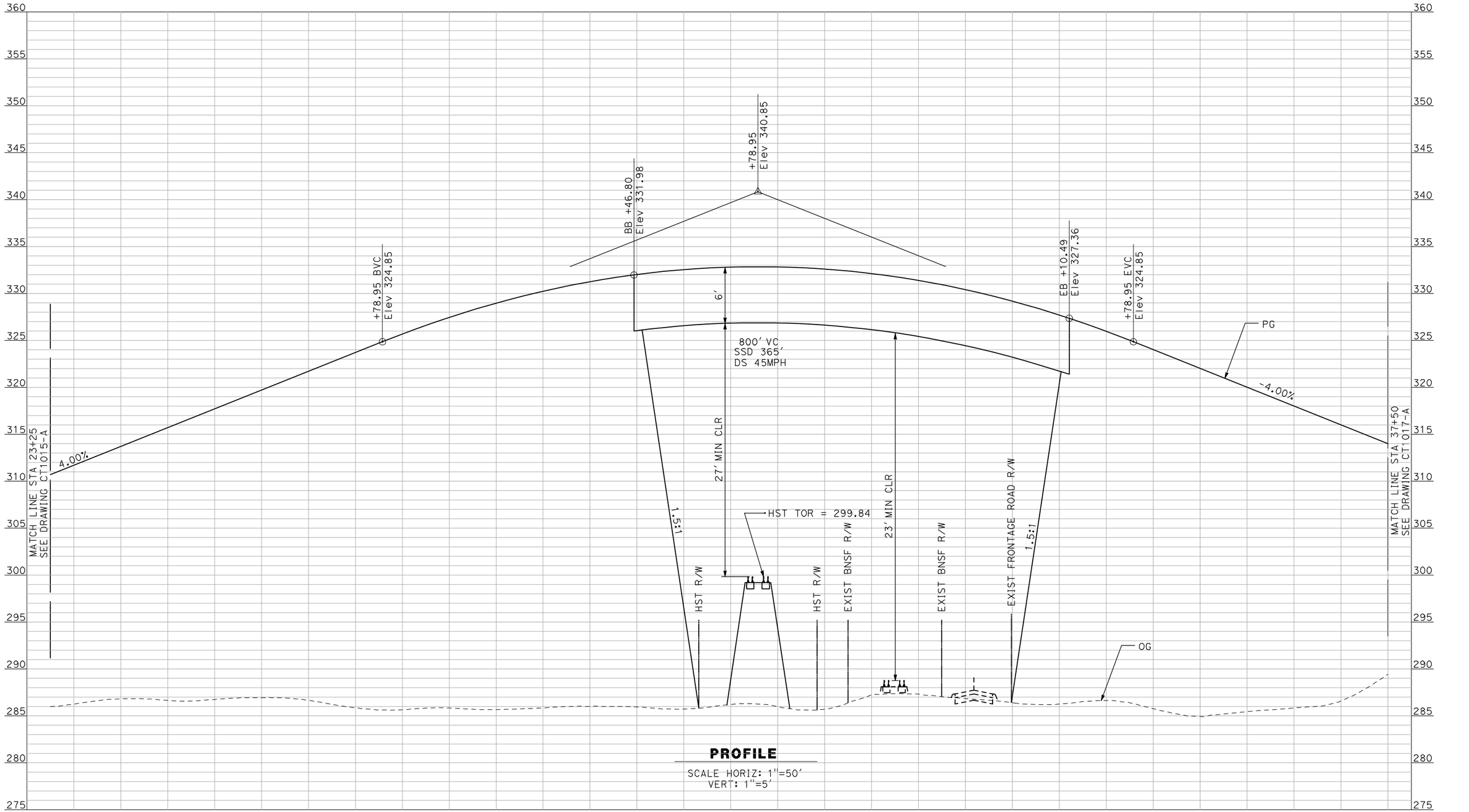
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 15
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1015-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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GibsonR1



PROFILE

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VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION

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IN CHARGE: A. BOONE
DATE: 04/29/2011

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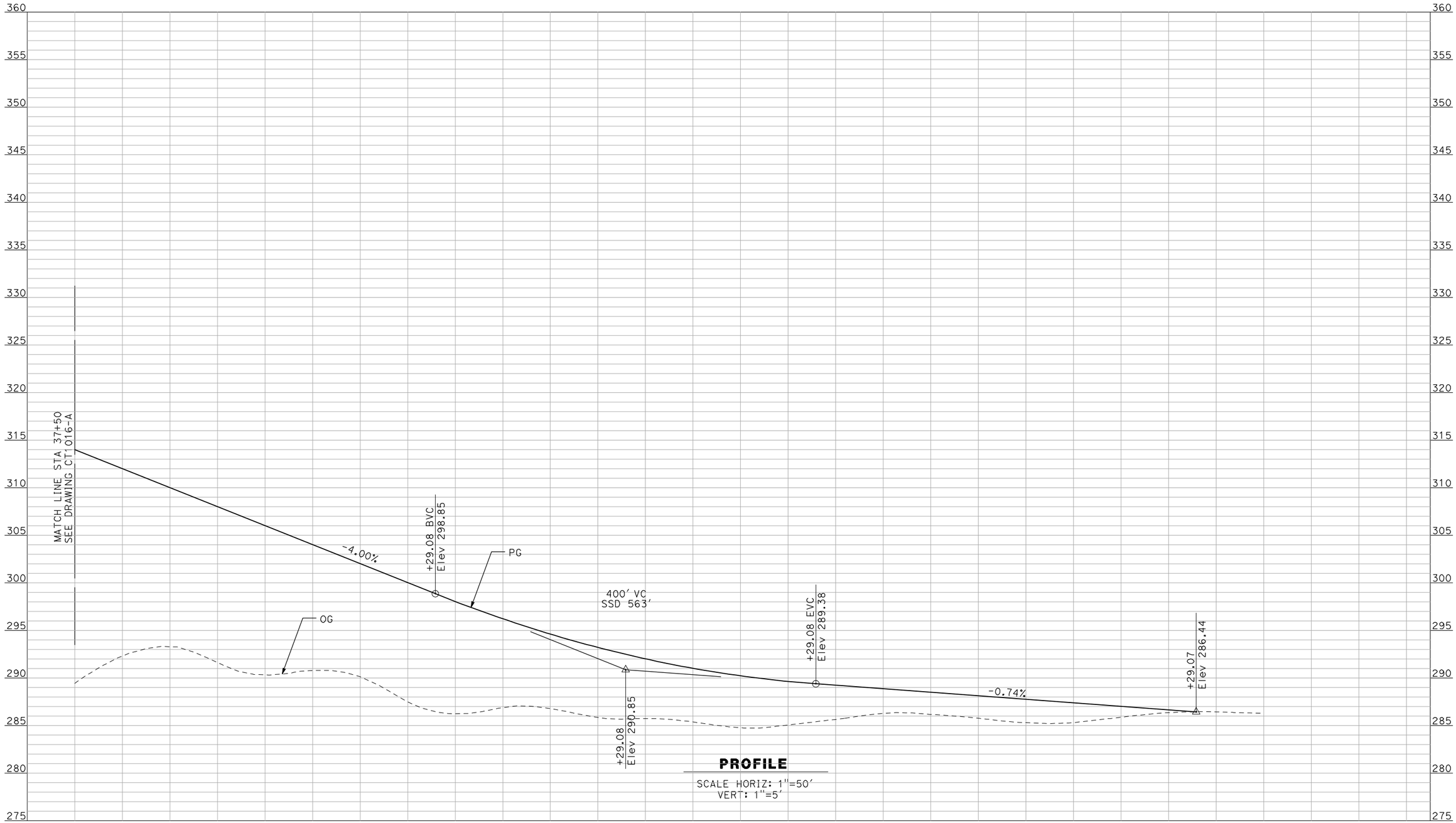
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 15
PROFILE
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1016-A
SCALE AS SHOWN
SHEET NO. ### OF ###



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: R. GIBSON
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DATE: 04/29/2011

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CH2MHILL

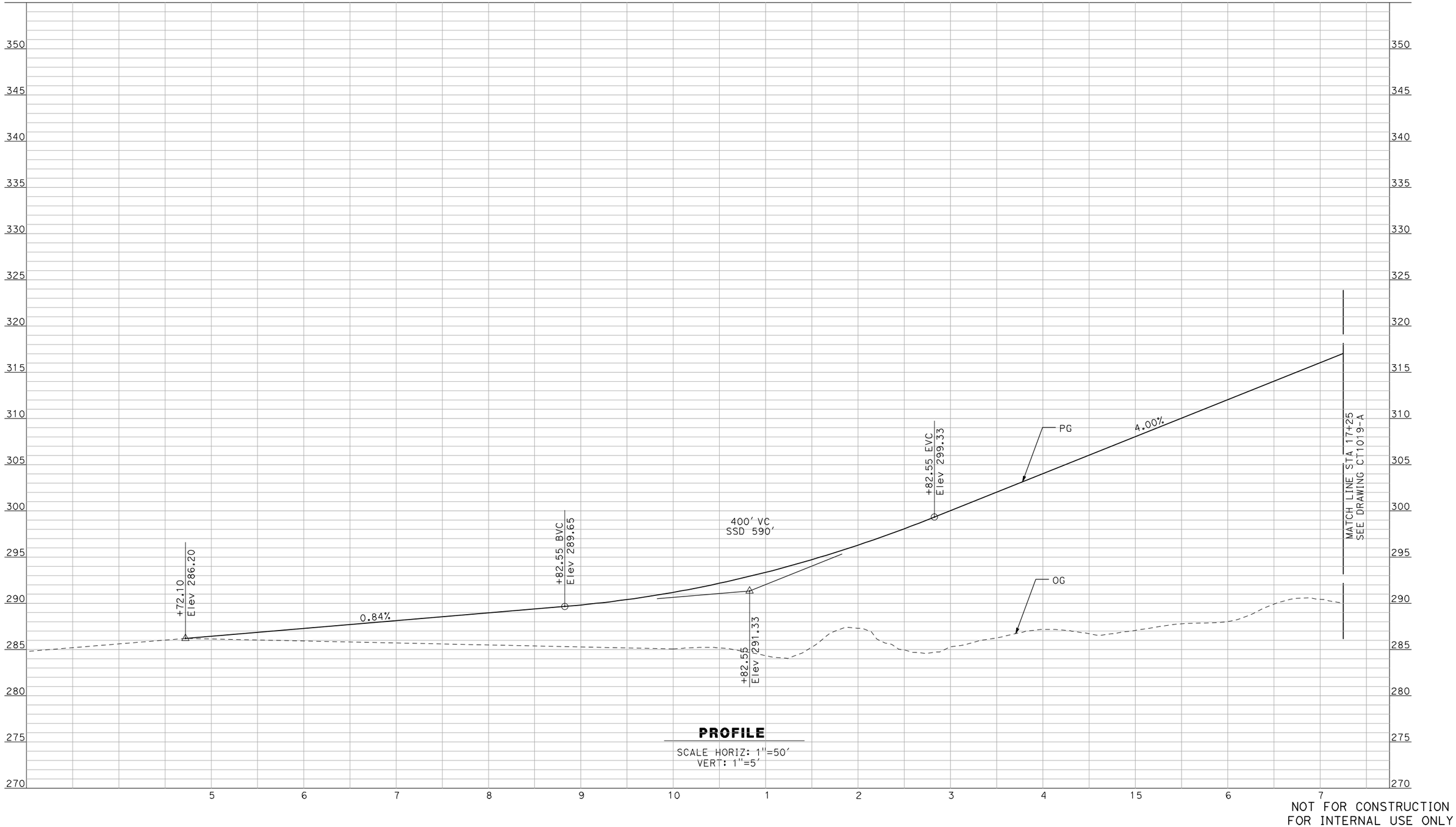
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 15
PROFILE
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1017-A
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GibsonR1



PROFILE

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VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: R. GIBSON
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DATE: 04/29/2011

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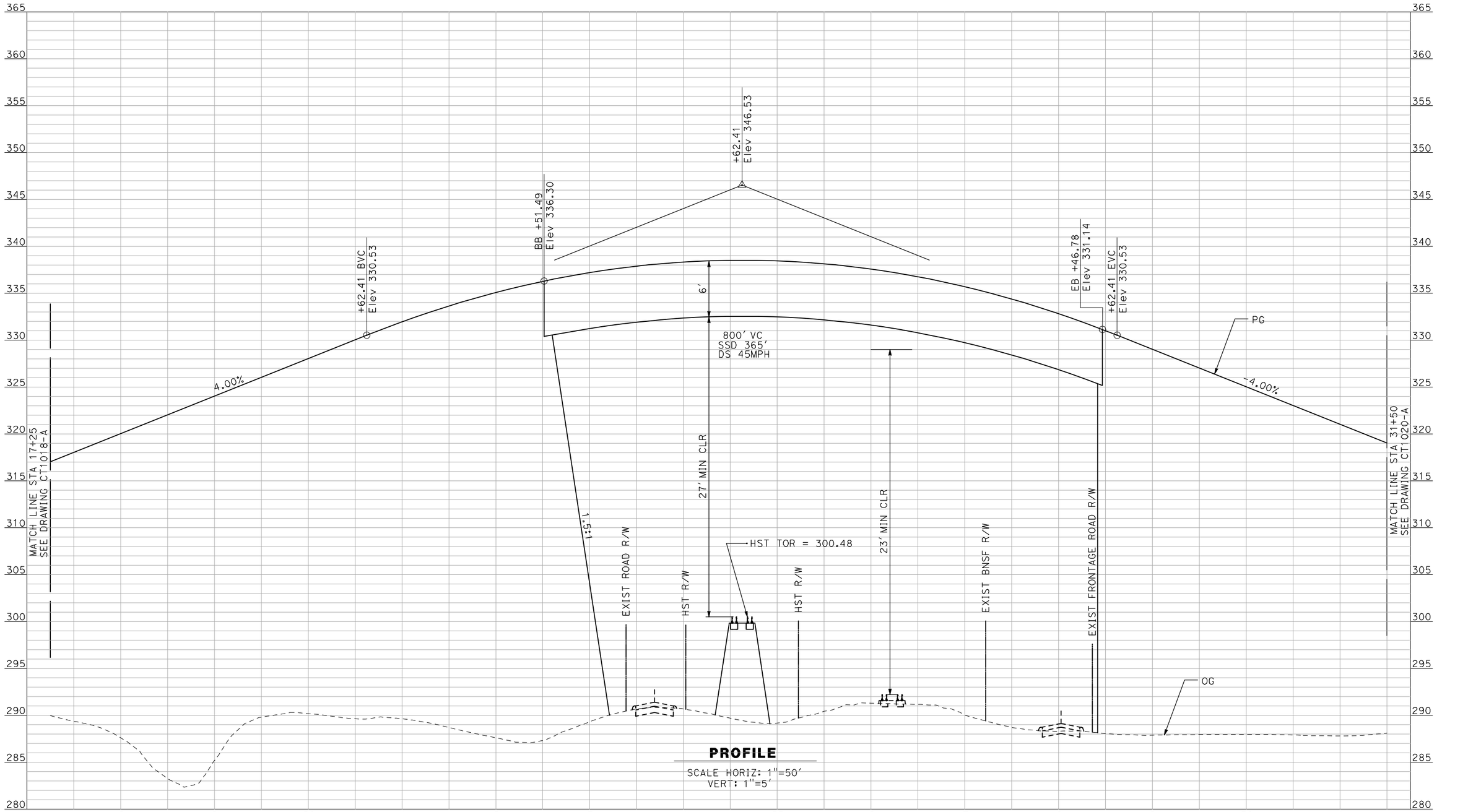
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 15 1/2
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1018-A
SCALE AS SHOWN
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PROFILE

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VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: R. GIBSON
DRAWN BY: F. DEMARCO
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IN CHARGE: A. BOONE
DATE: 04/29/2011

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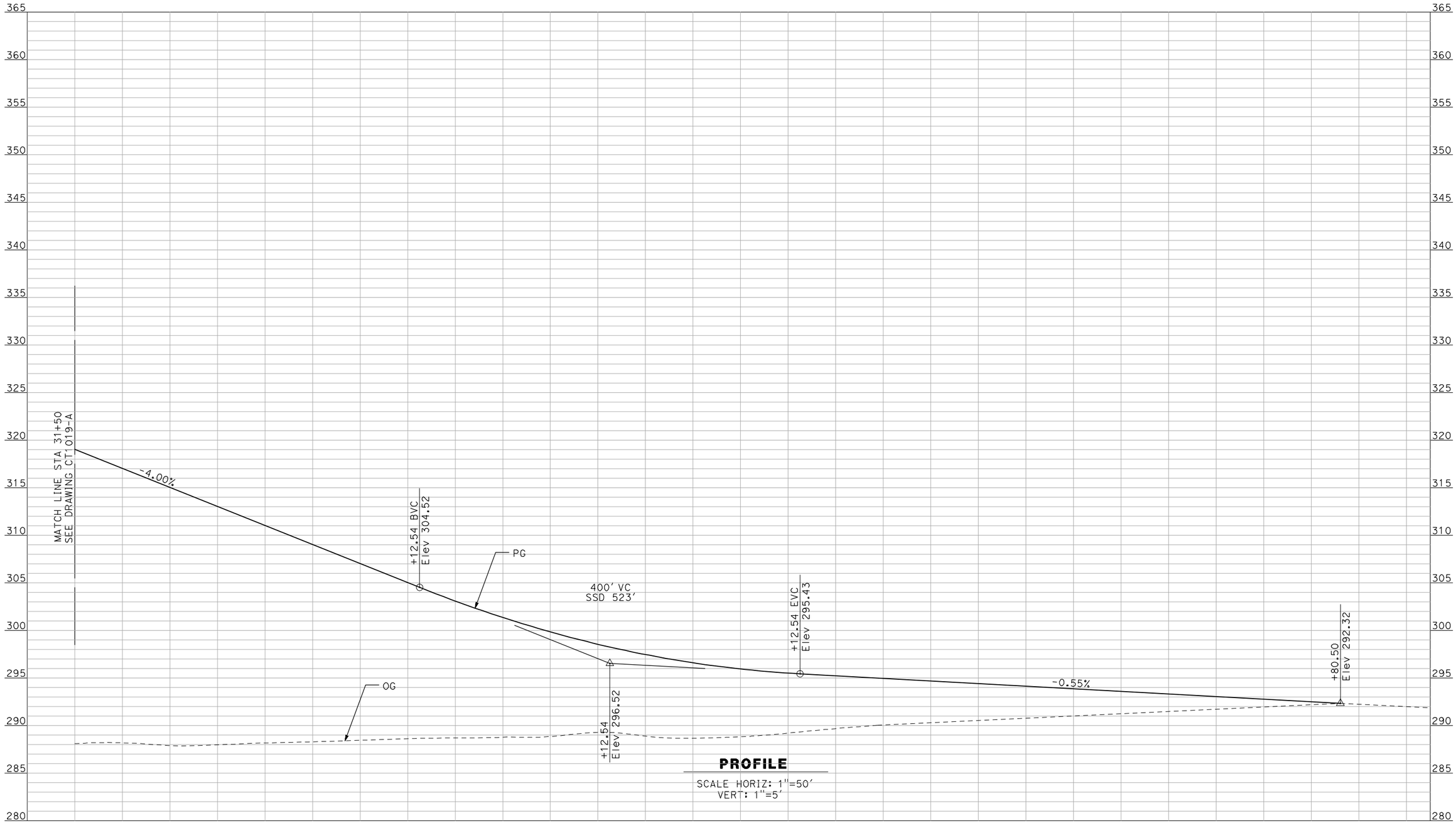
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Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 15 1/2
PROFILE
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1019-A
SCALE AS SHOWN
SHEET NO. ### OF ###



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DATE: 04/29/2011

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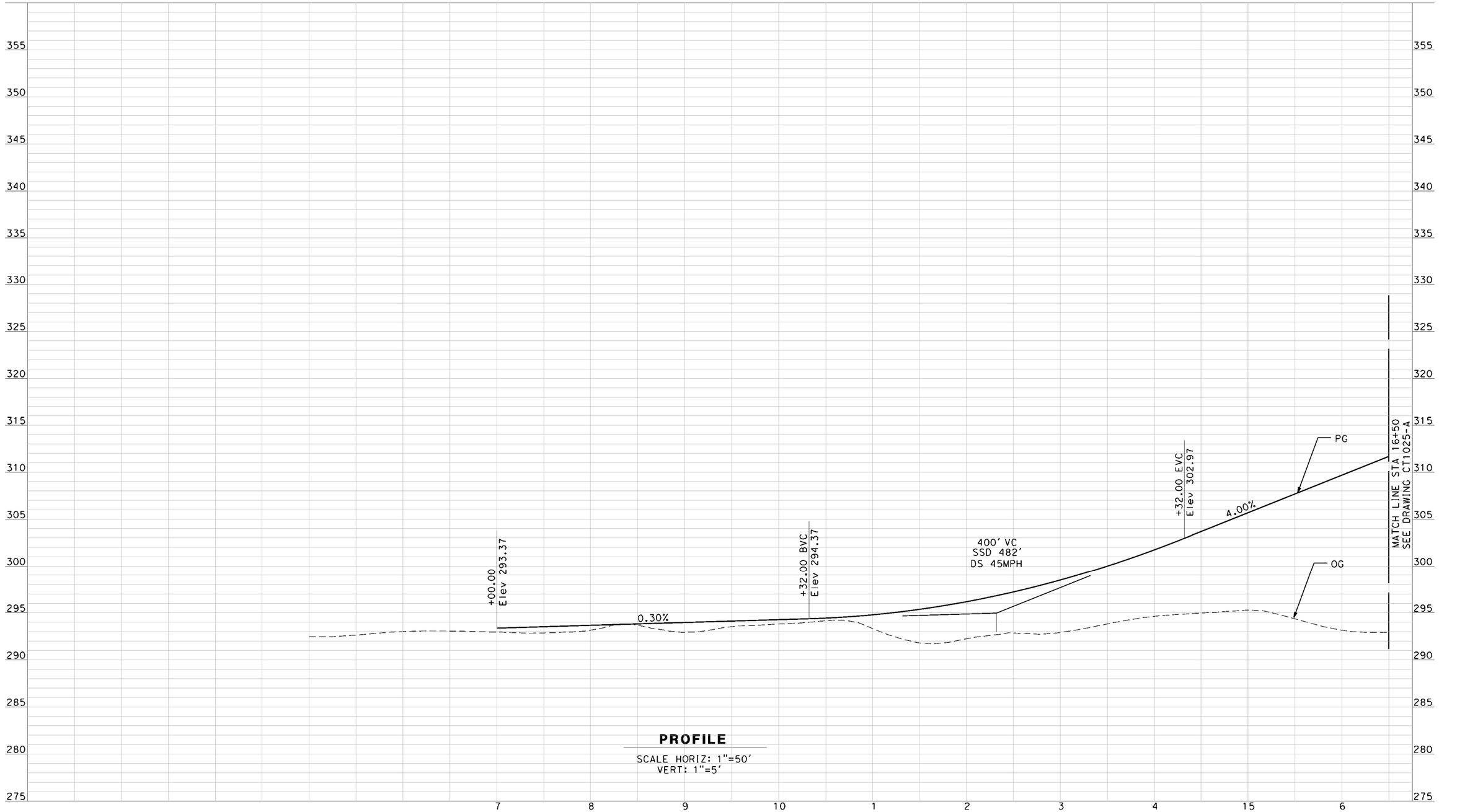
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 15 1/2
PROFILE
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1020-A
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PROFILE

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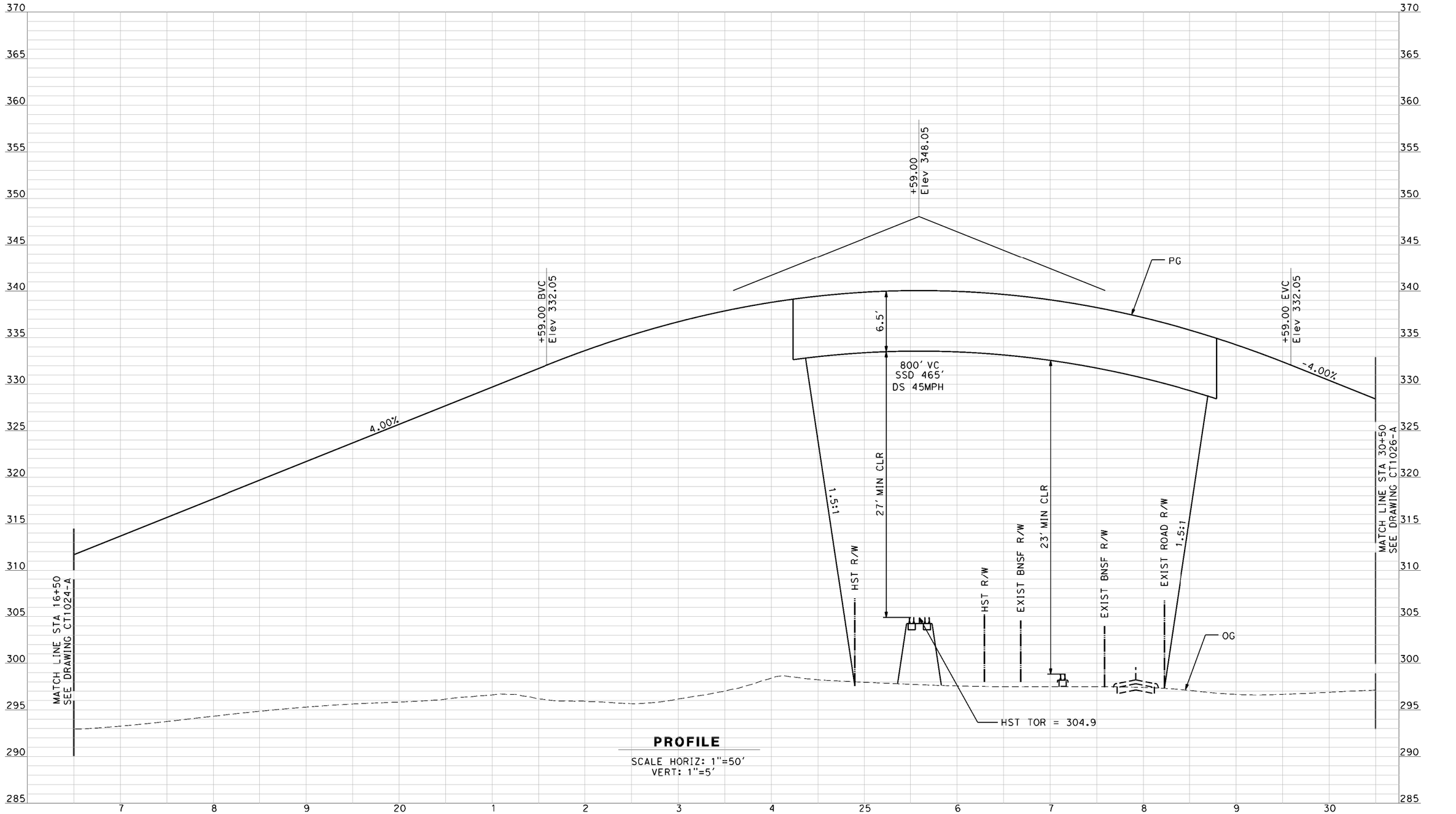
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

HYBRID MAIN LINE - (AVE 24 WYE)
GRADE SEPARATION - AVENUE 17
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1024-A
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lros



PROFILE

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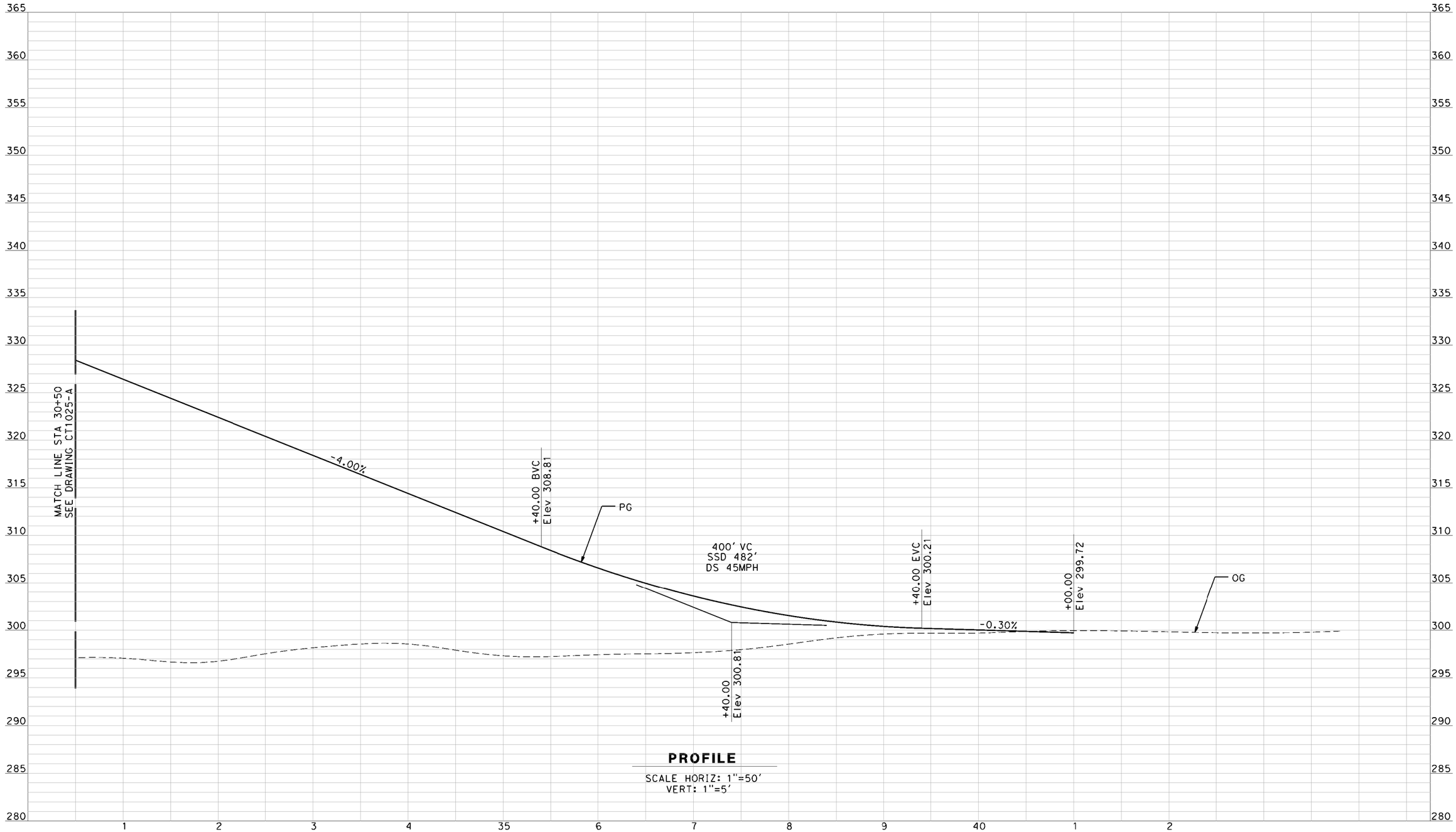
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

HYBRID MAIN LINE - (AVE 24 WYE)
GRADE SEPARATION - AVENUE 17
PROFILE
SHEET 2 OF 3

CONTRACT NO. HSR06-007
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lros



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION

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DRAWN BY: F. DEMARCO
CHECKED BY: J. ZANDIAN
IN CHARGE: A. BOONE
DATE: 06/30/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

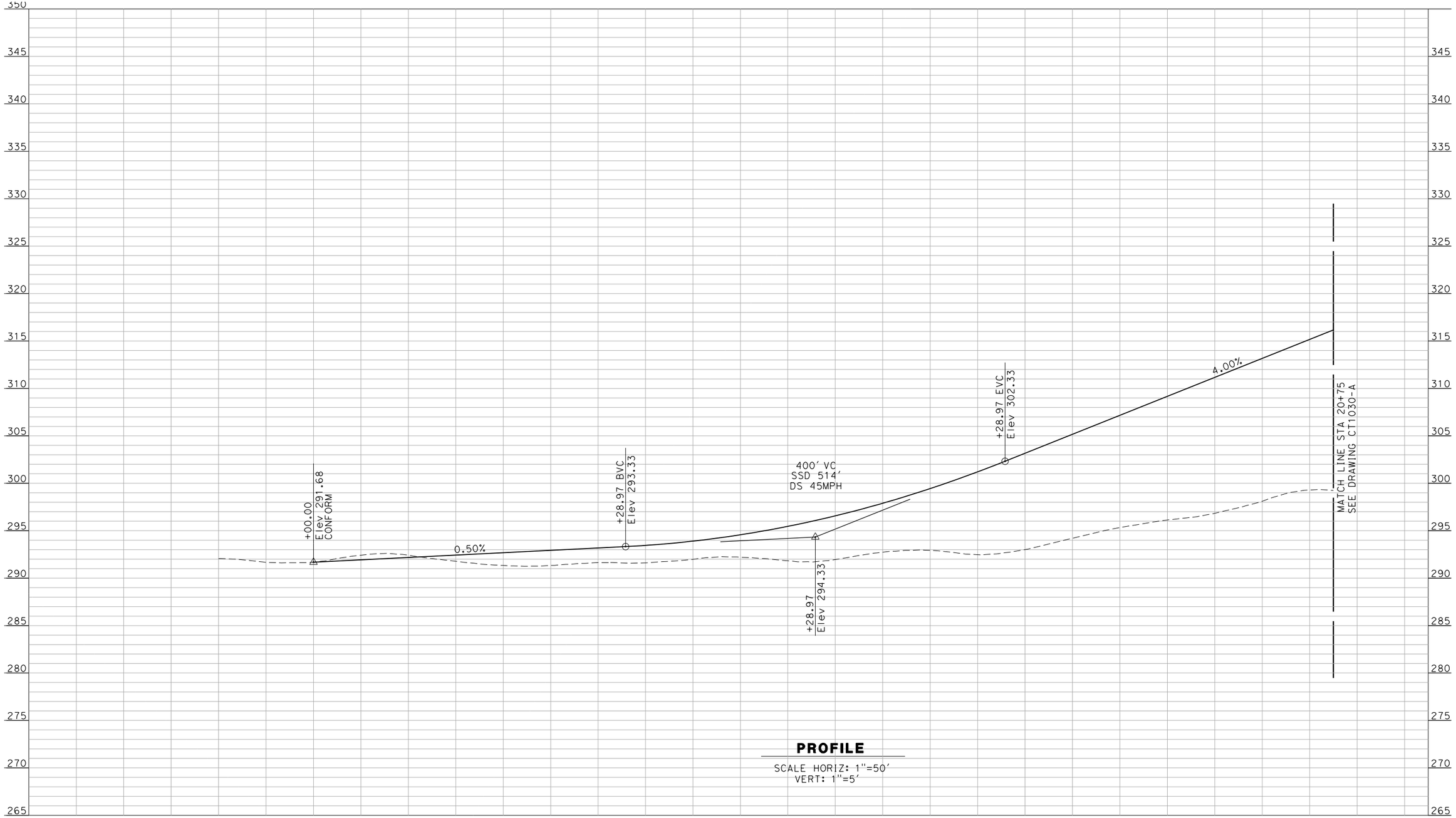
HYBRID MAIN LINE - (AVE 24 WYE)
GRADE SEPARATION - AVENUE 17
PROFILE
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. ###
SCALE AS SHOWN
SHEET NO. OF ###

CT1026-A

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PROFILE

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REV	DATE	BY	CHK	APP	DESCRIPTION

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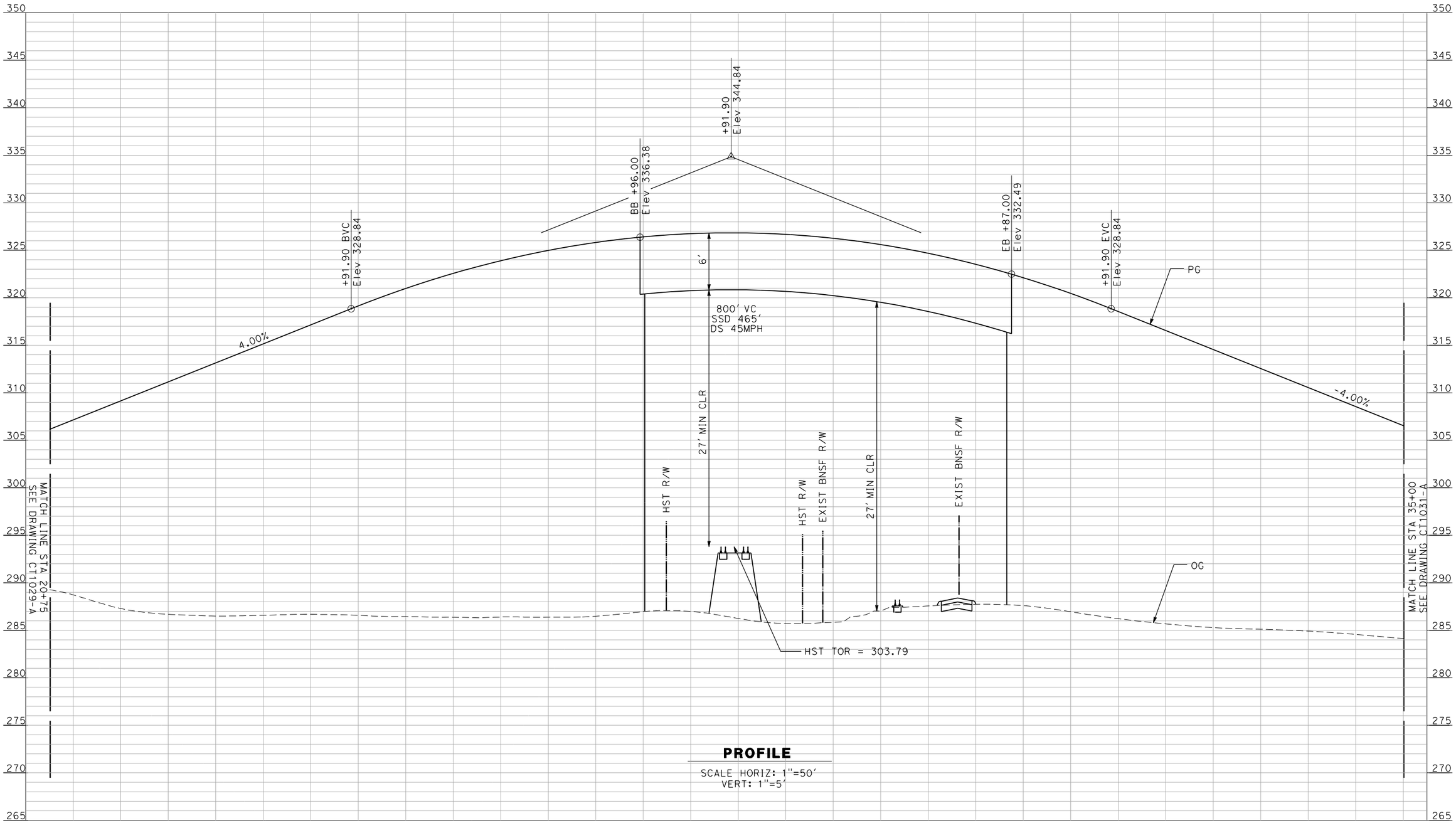
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 27
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1029-A
SCALE AS SHOWN
SHEET NO. OF ###

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PROFILE

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DRAWN BY: F. DEMARCO
CHECKED BY: A. SILVER
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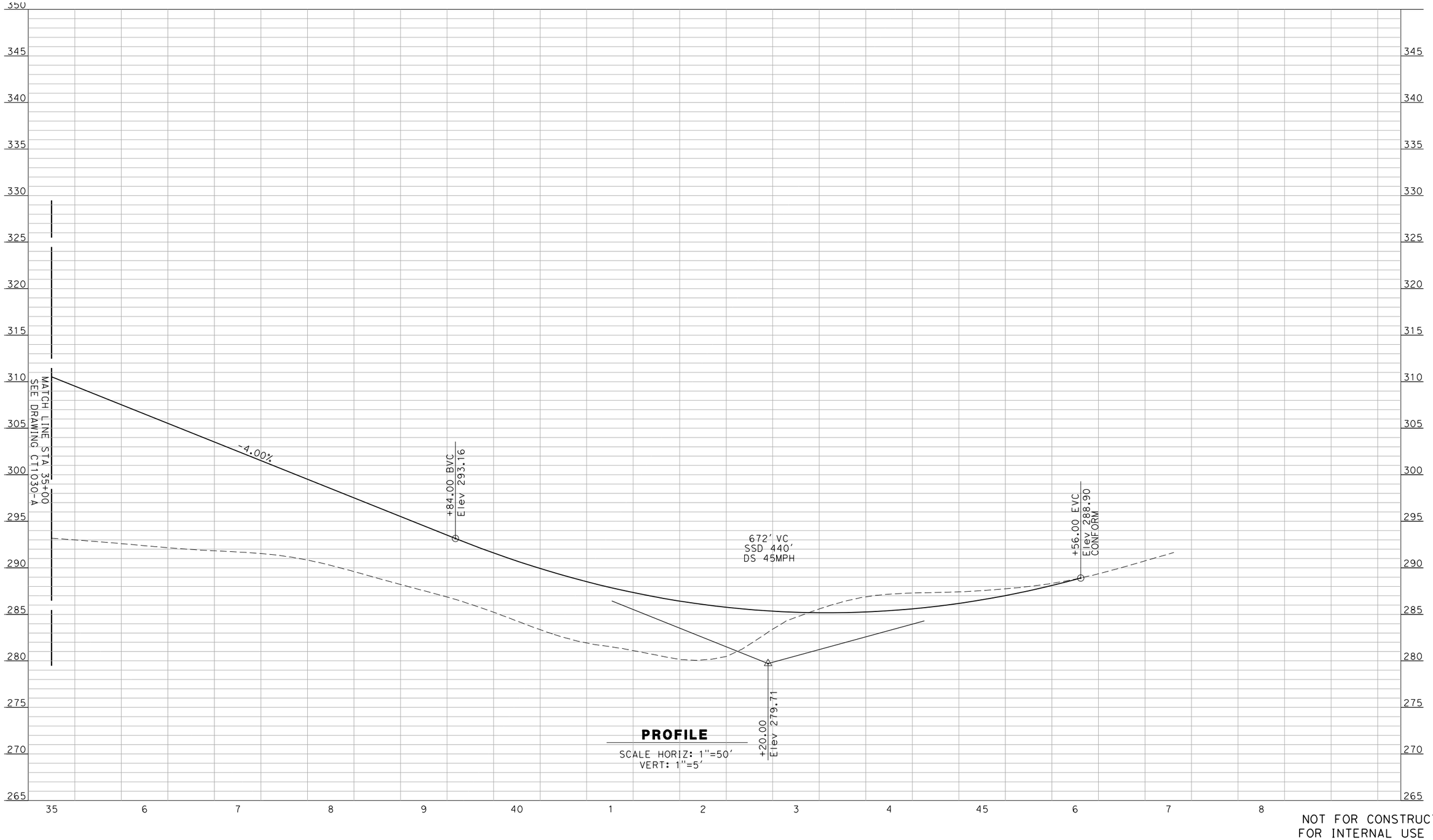
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 27
PROFILE
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1030-A
SCALE AS SHOWN
SHEET NO. OF ###

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CHECKED BY: A. SILVER
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DATE: 06/30/2011

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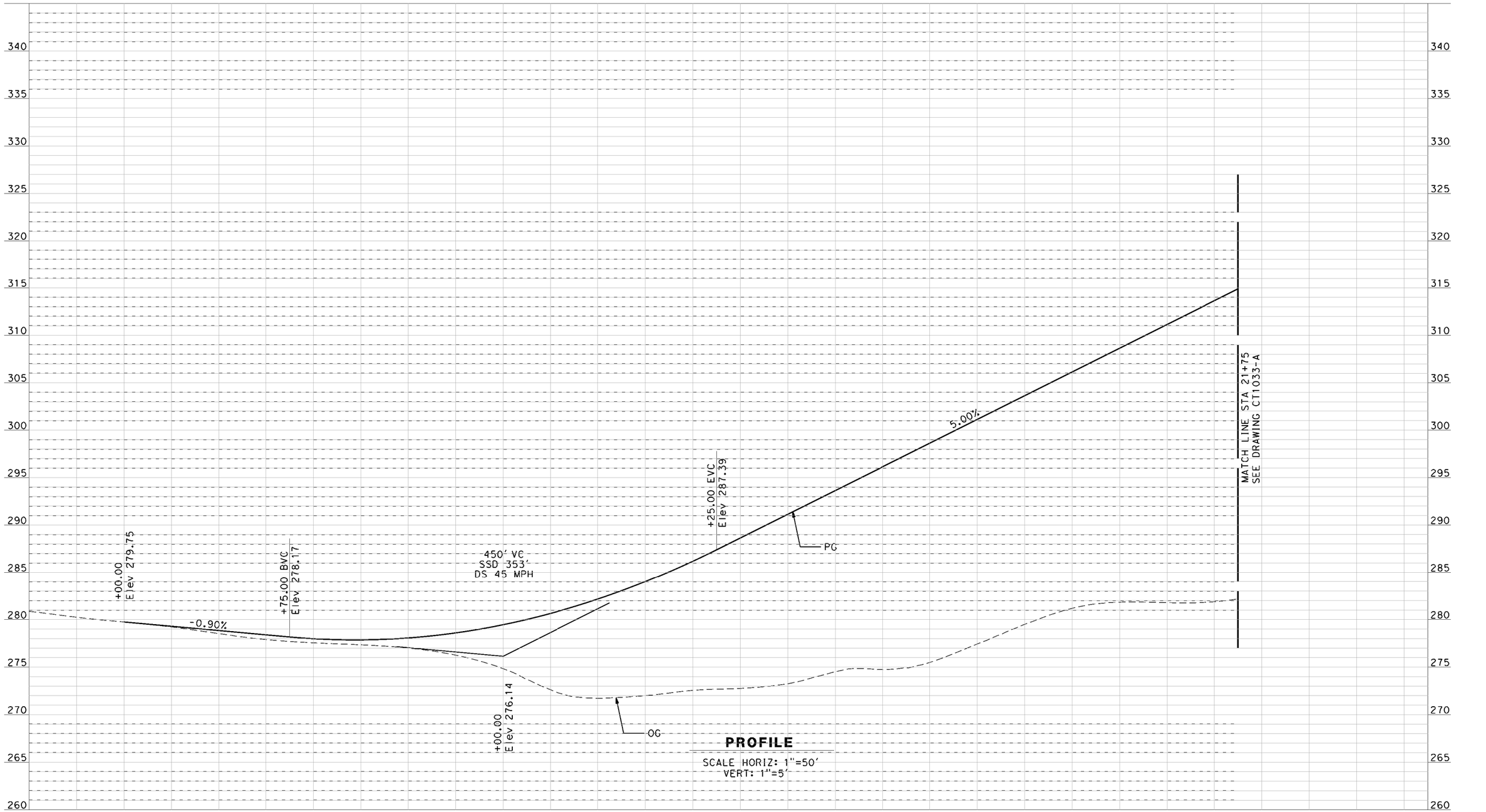
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Sacramento, CA 95811
CH2MHILL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAINLINE - HYBRID
GRADE SEPARATION - ROAD 27
PROFILE
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1031-A
SCALE AS SHOWN
SHEET NO. OF ###



PROFILE

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VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION

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DRAWN BY F. DEMARCO
CHECKED BY A. SANDERN
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
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CONSTRUCTION

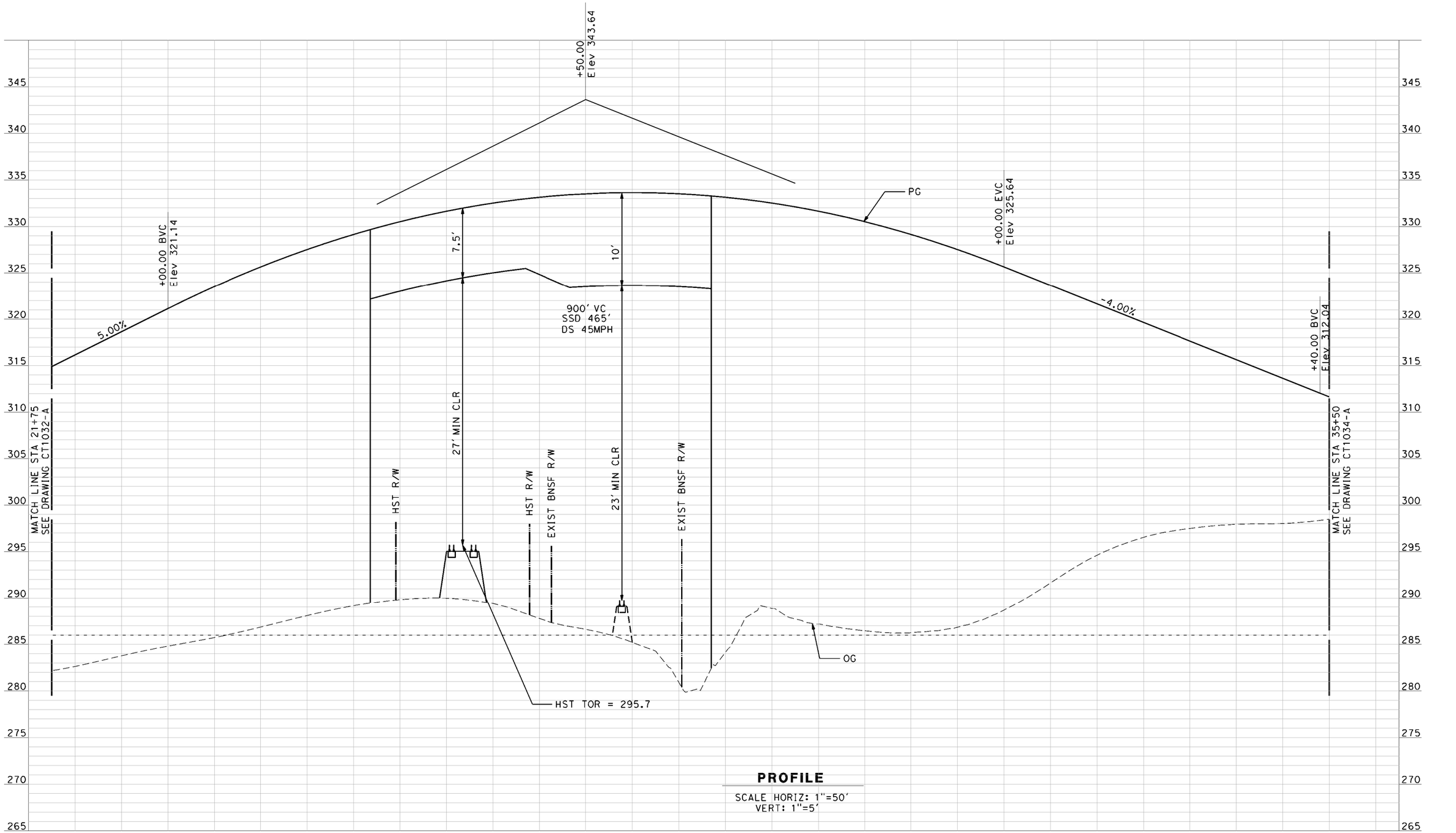
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CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
HYBRID MAIN LINE (AVE 24 WYE)
GRADE SEPARATION - ROAD 26
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1032-A
SCALE AS SHOWN
SHEET NO. OF ###

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lros



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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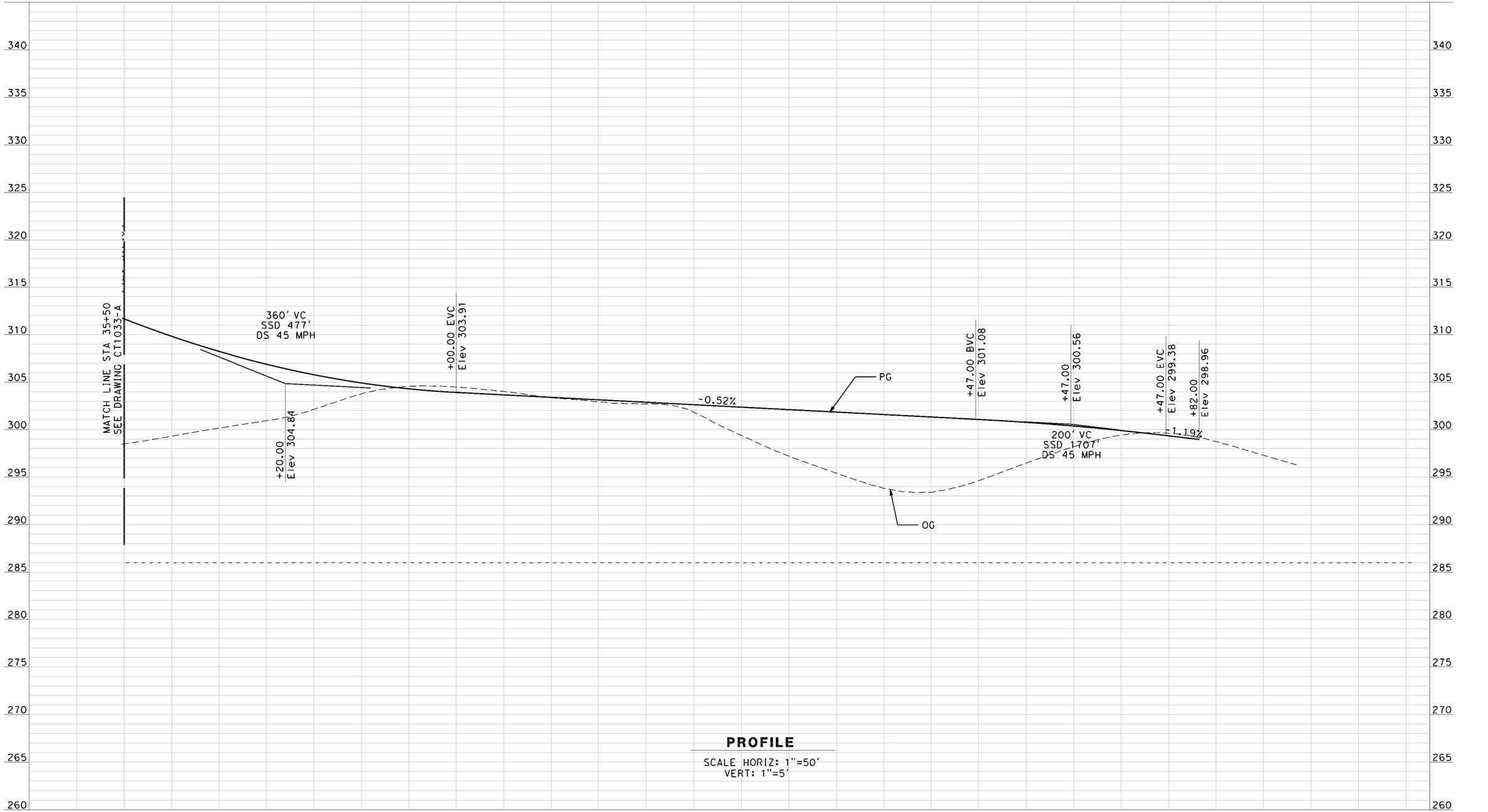
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

HYBRID MAIN LINE - (AVE 24 WYE)
GRADE SEPARATION - ROAD 26
PROFILE
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1033-A
SCALE AS SHOWN
SHEET NO. OF ###

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

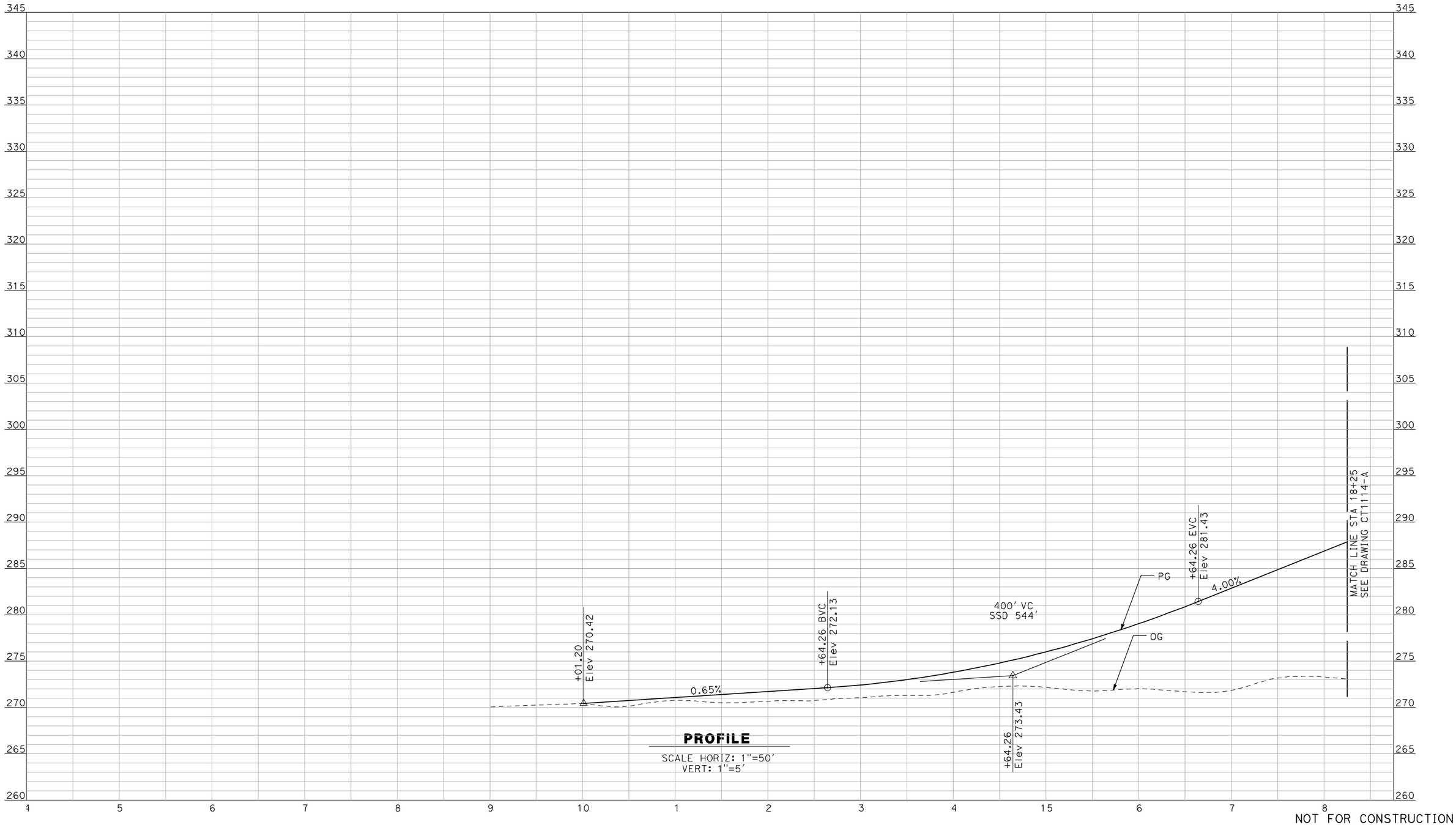
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

HYBRID MAIN LINE (AVE 24 WYE)
GRADE SEPARATION - ROAD 26
PROFILE
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1034-A
SCALE AS SHOWN
SHEET NO. OF ###

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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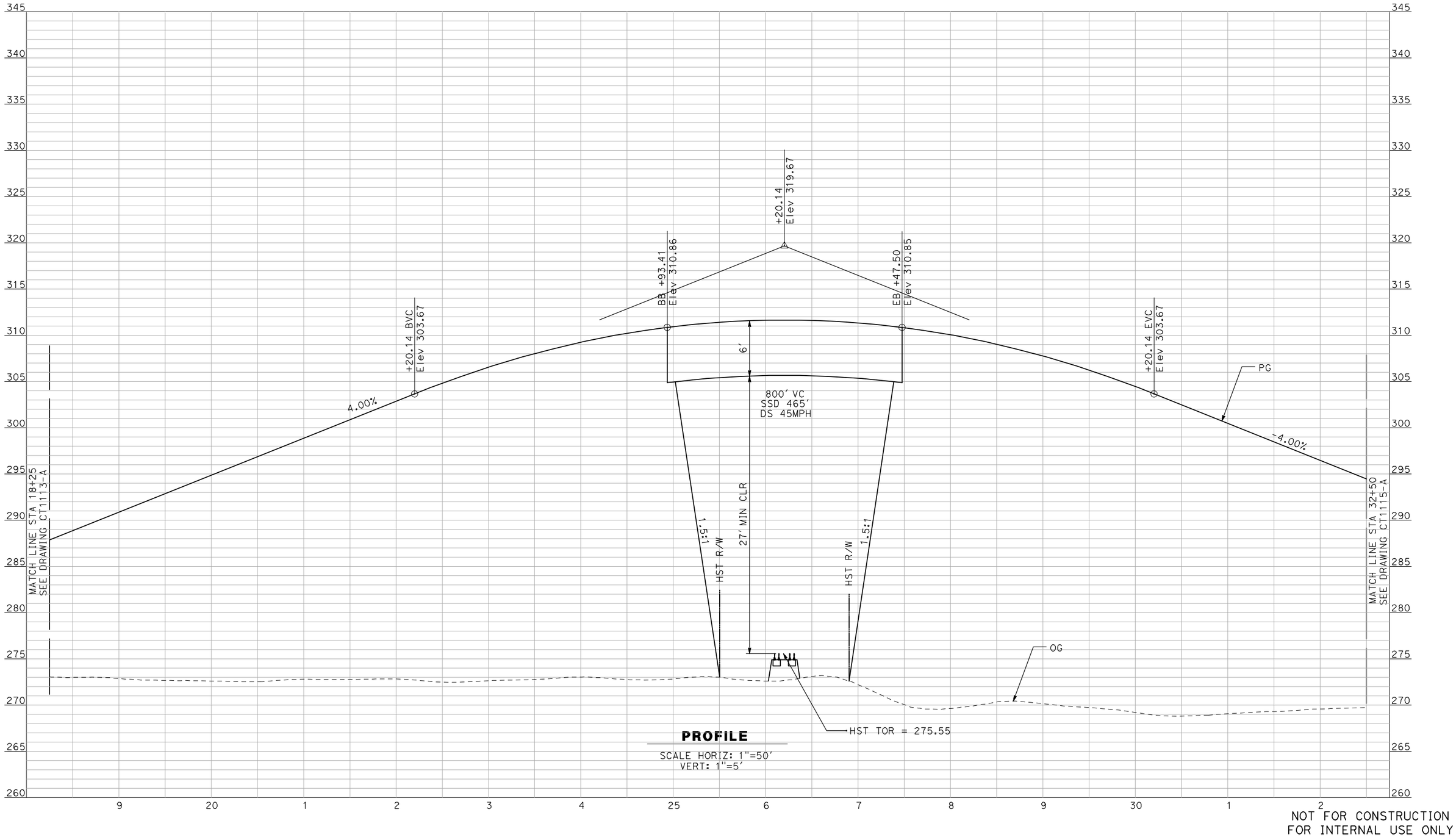
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 20
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1113-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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GibsonR1



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION

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IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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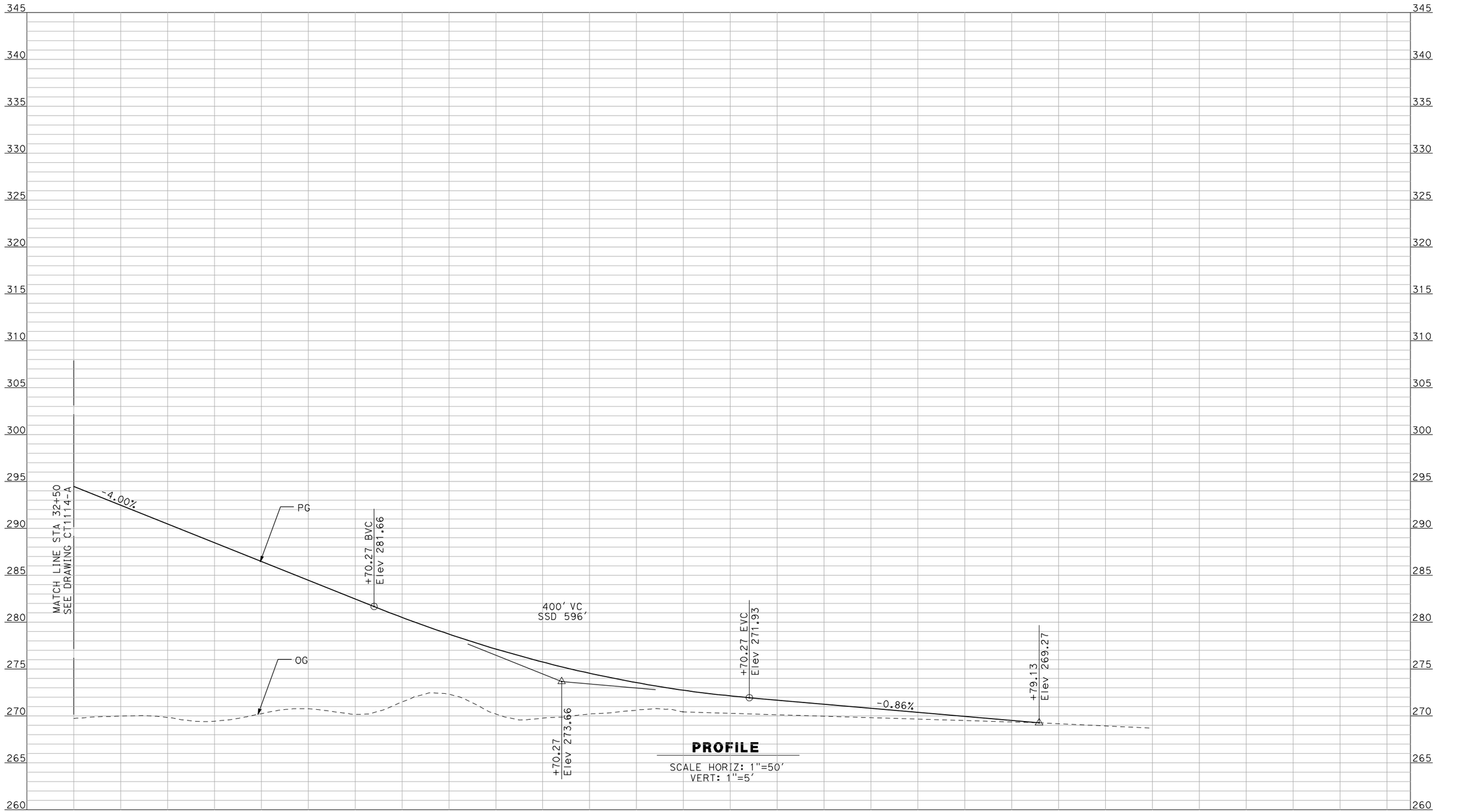
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 20
PROFILE
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1114-A
SCALE AS SHOWN
SHEET NO. ### OF ###



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

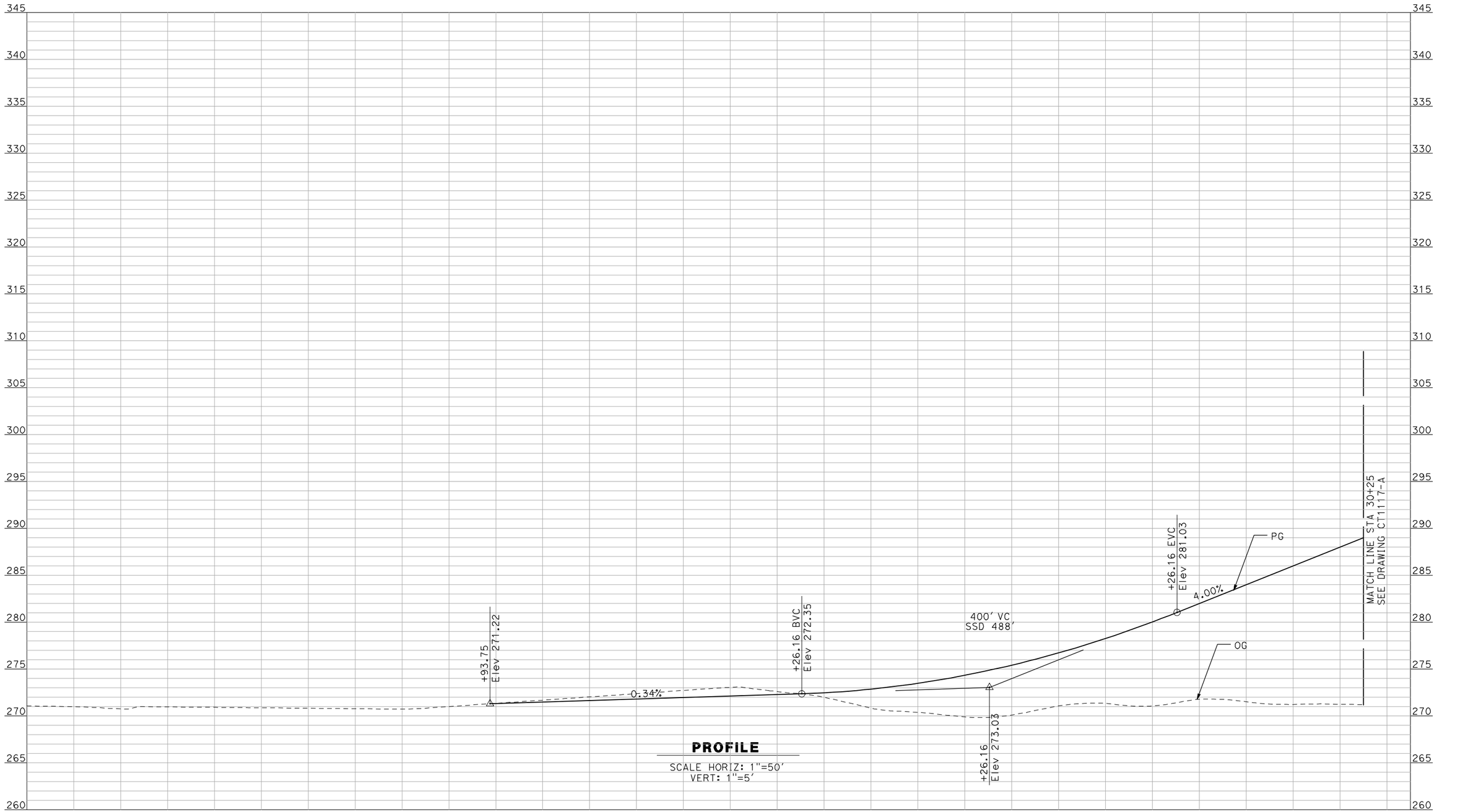
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 20
PROFILE
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1115-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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5/1/2011 1:44:15 PM
GibsonR1



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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CHECKED BY: J. ZANDIAN
IN CHARGE: A. BOONE
DATE: 04/29/2011

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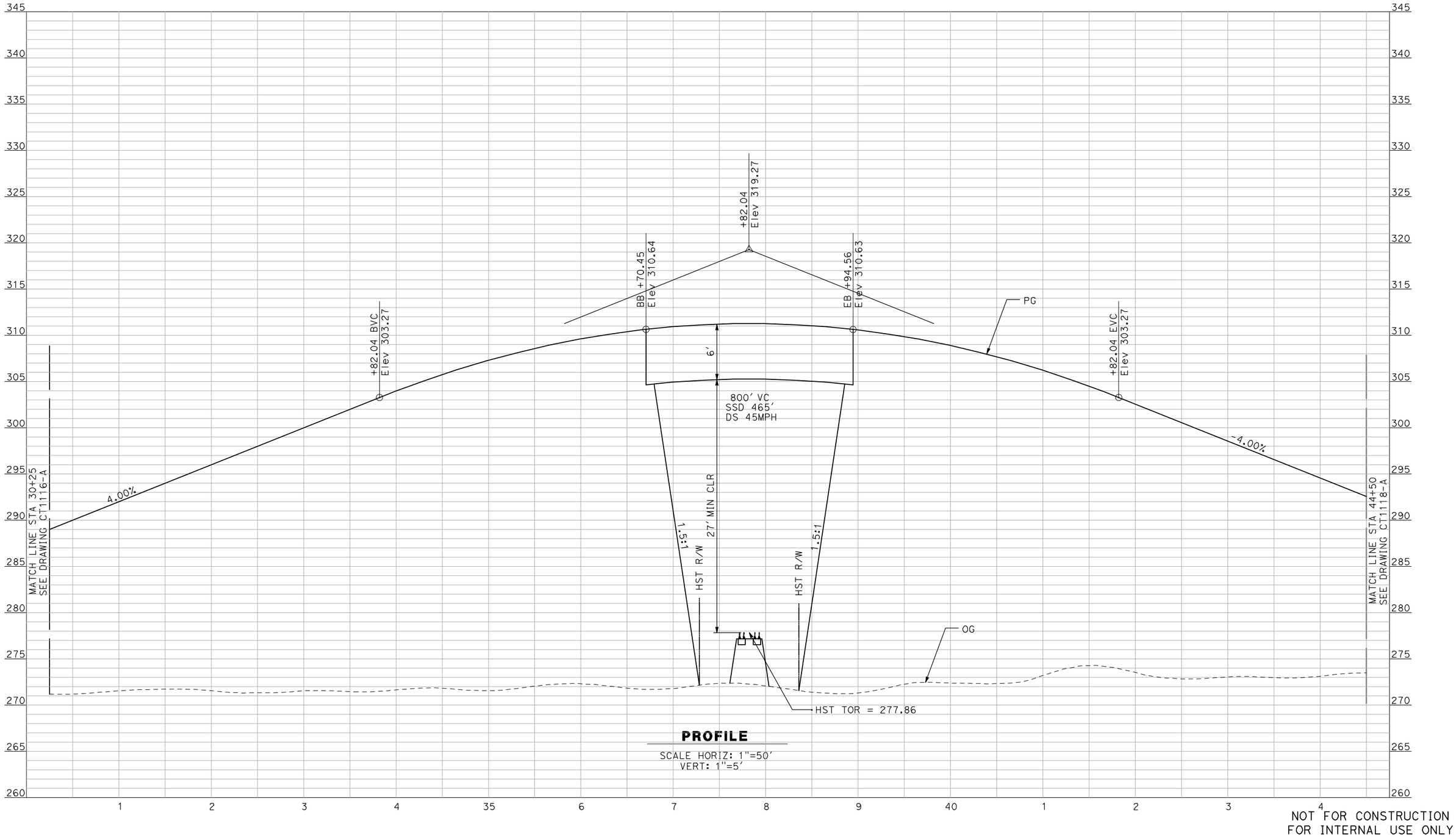
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 20 1/2
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1116-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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GibsonR1



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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DESIGNED BY: R. GIBSON
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CHECKED BY: J. ZANDIAN
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DATE: 04/29/2011

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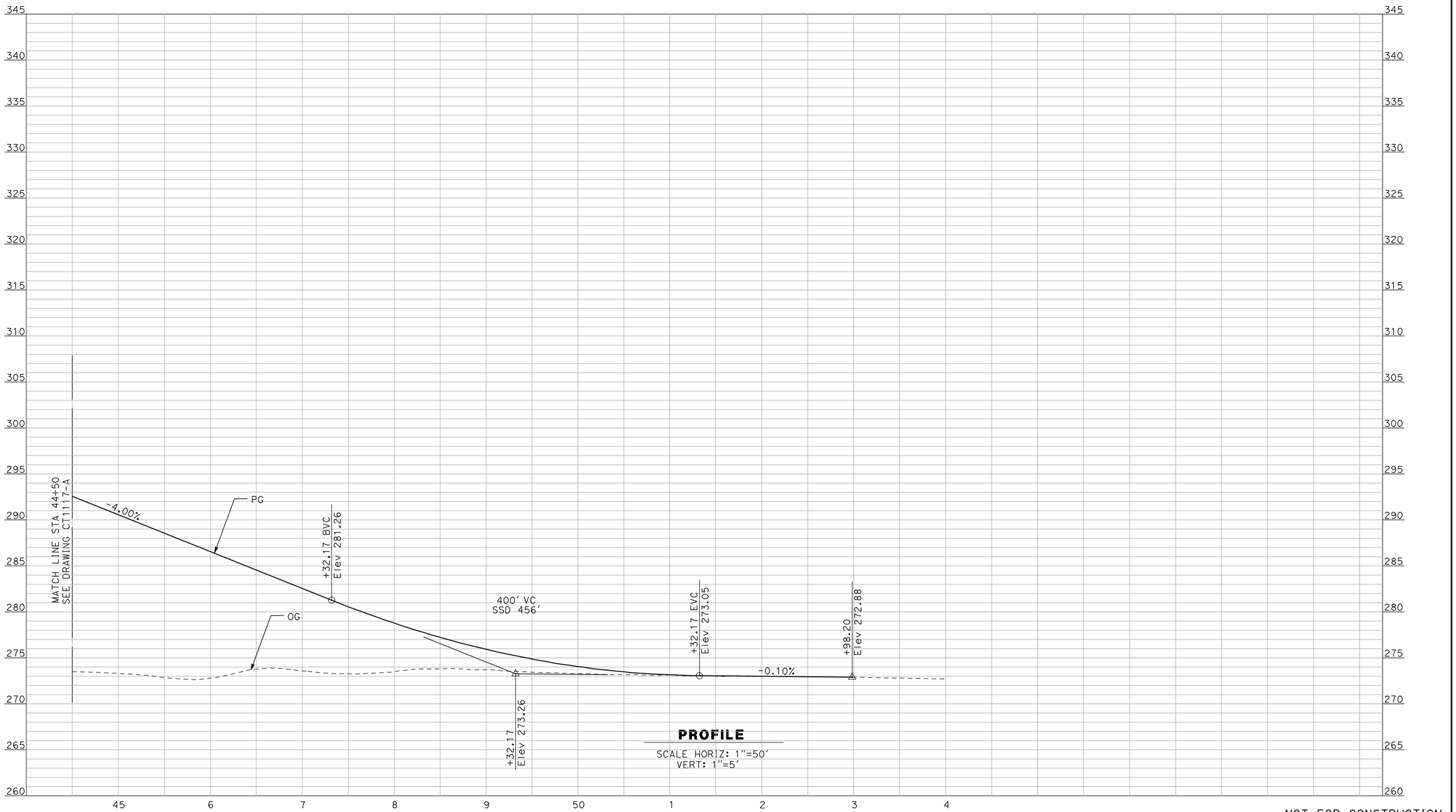
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 20 1/2
PROFILE
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1117-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION

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DATE 04/29/2011

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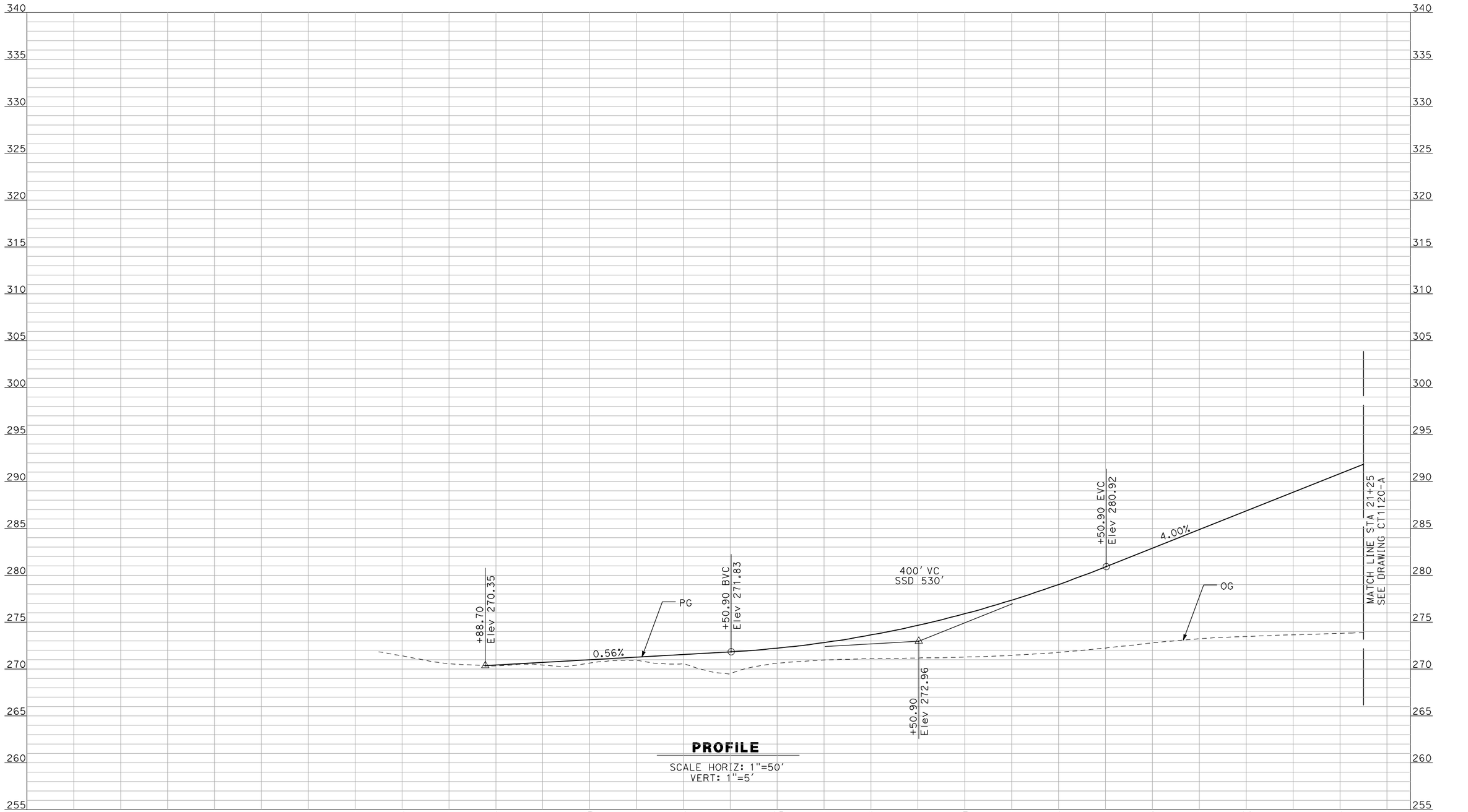
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - AVENUE 20 1/2
PROFILE
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1118-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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CHECKED BY: J. ZANDIAN
IN CHARGE: A. BOONE
DATE: 04/29/2011

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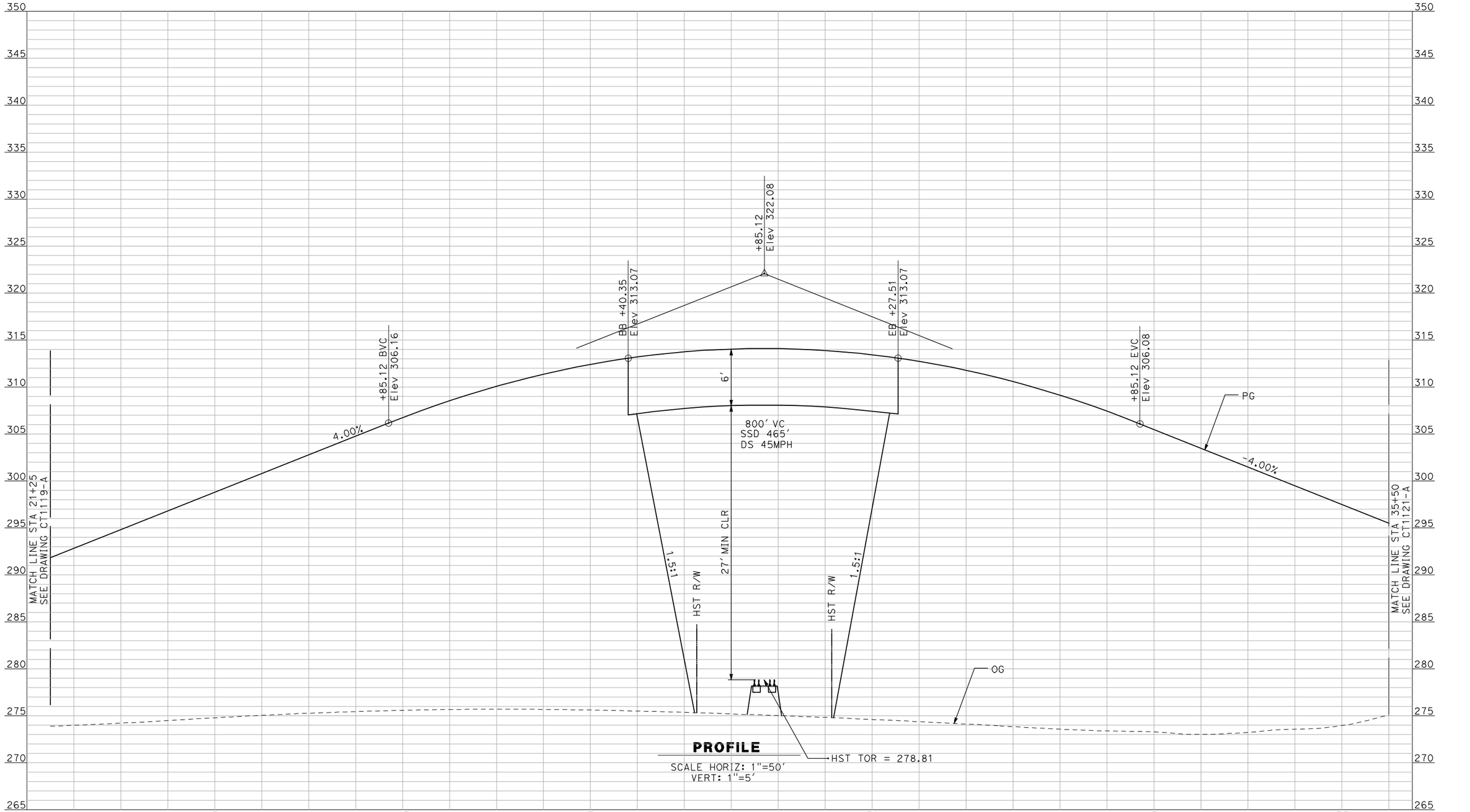
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 24
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1119-A
SCALE AS SHOWN
SHEET NO. ### OF ###



PROFILE

SCALE HORIZ: 1"=50'
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REV	DATE	BY	CHK	APP	DESCRIPTION

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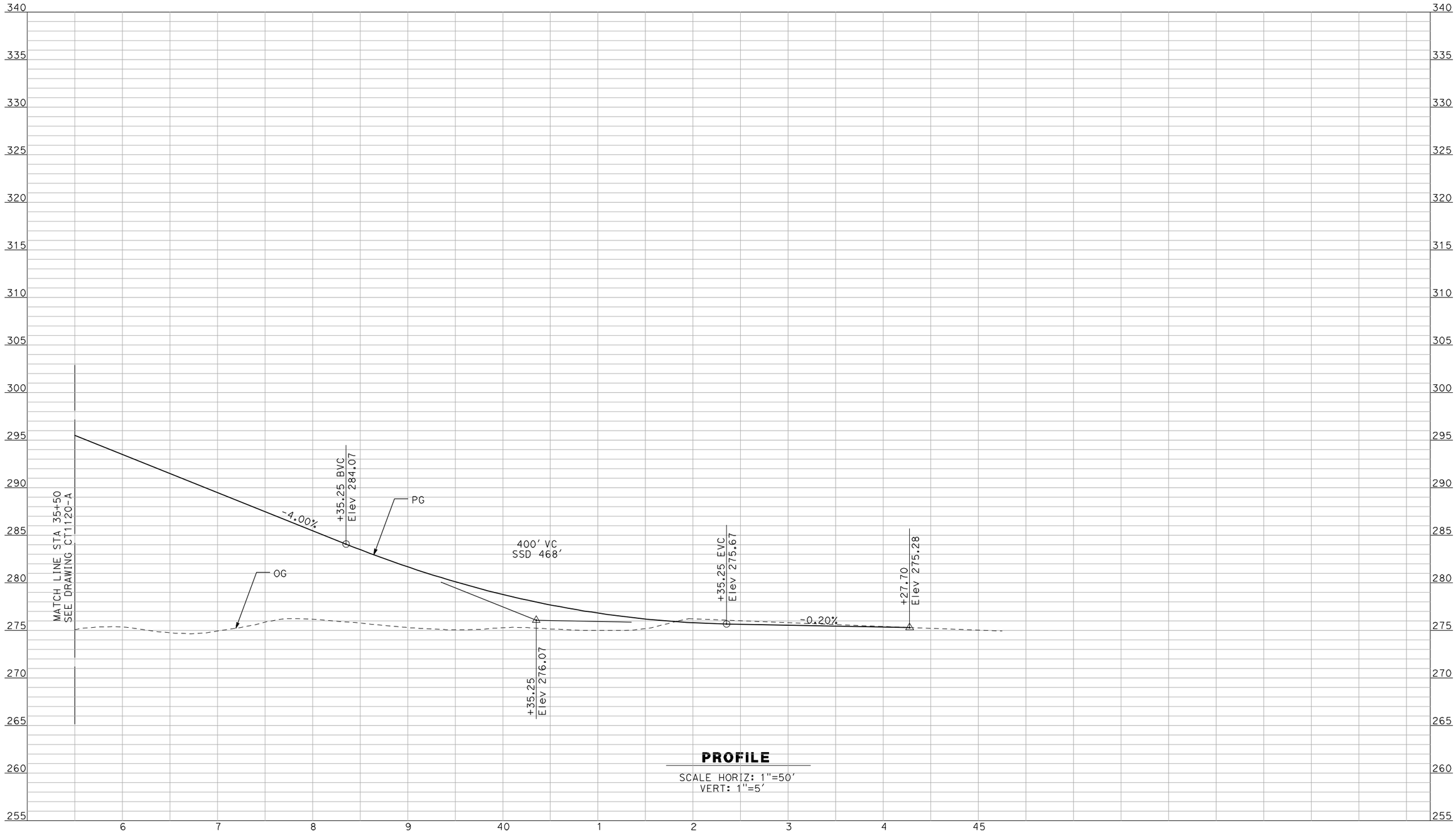
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 24
PROFILE
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1120-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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PROFILE

SCALE HORIZ: 1"=50'
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

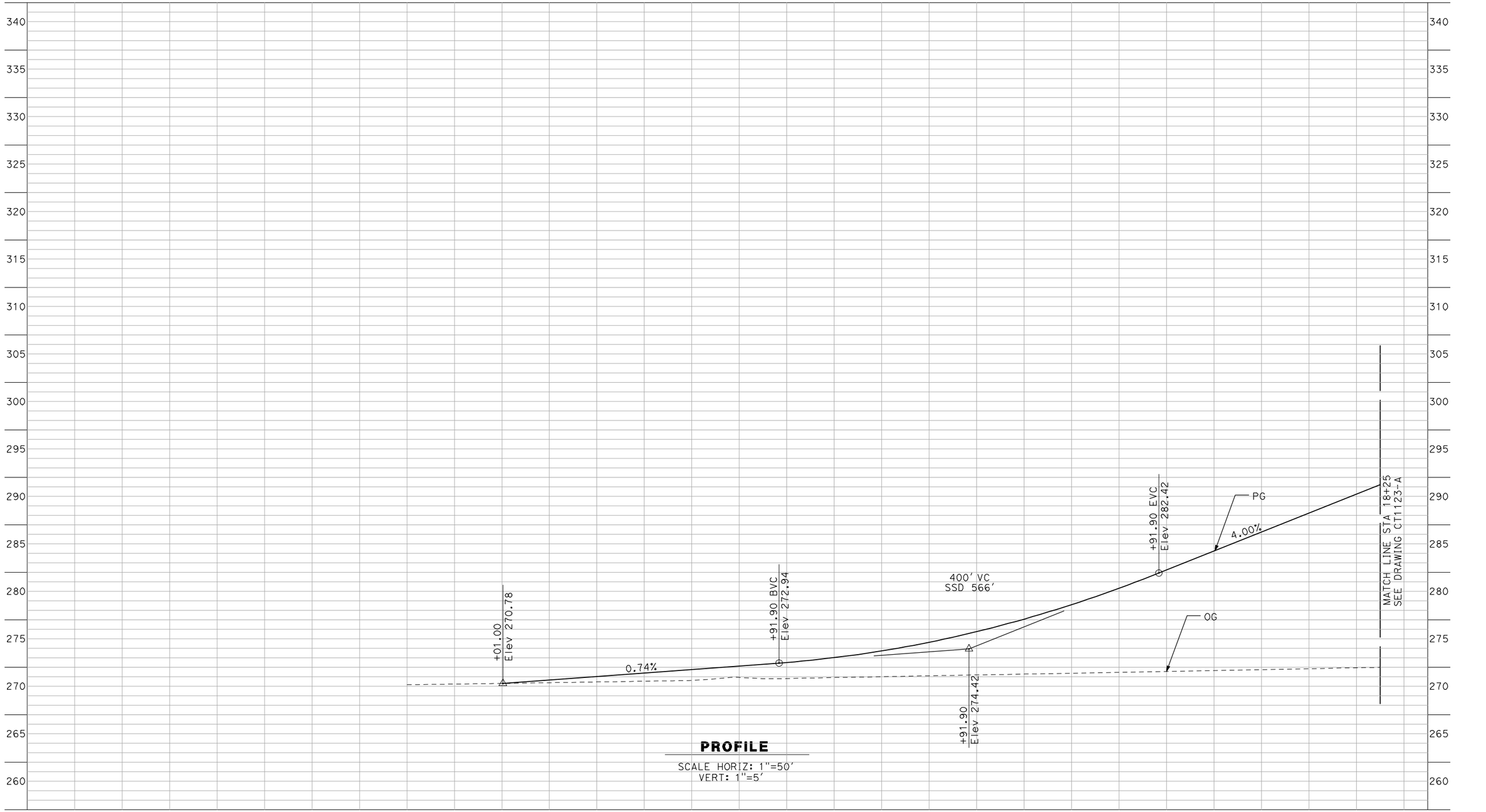
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 24
PROFILE
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1121-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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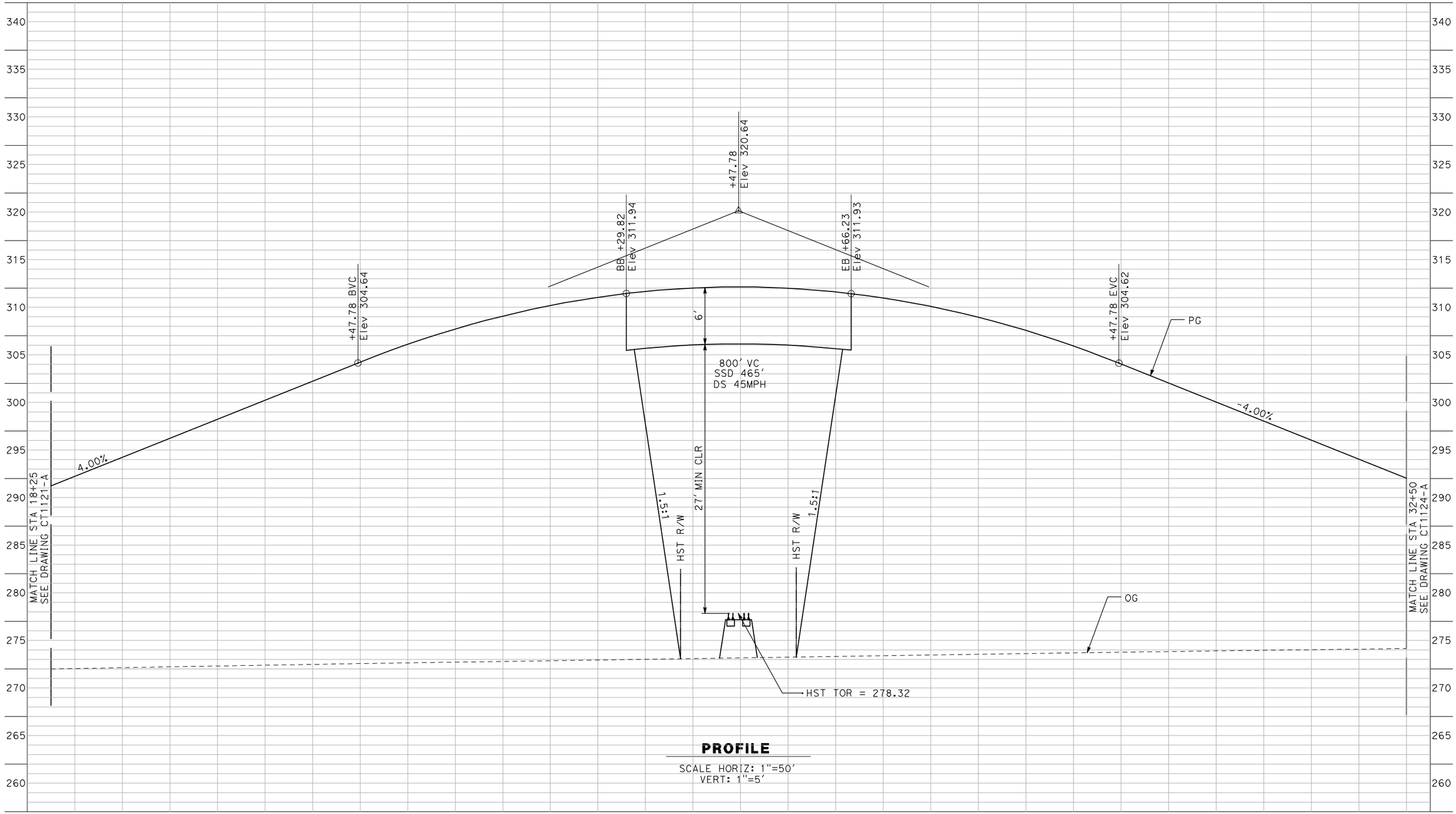
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - ROAD 22
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1122-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: R. GIBSON
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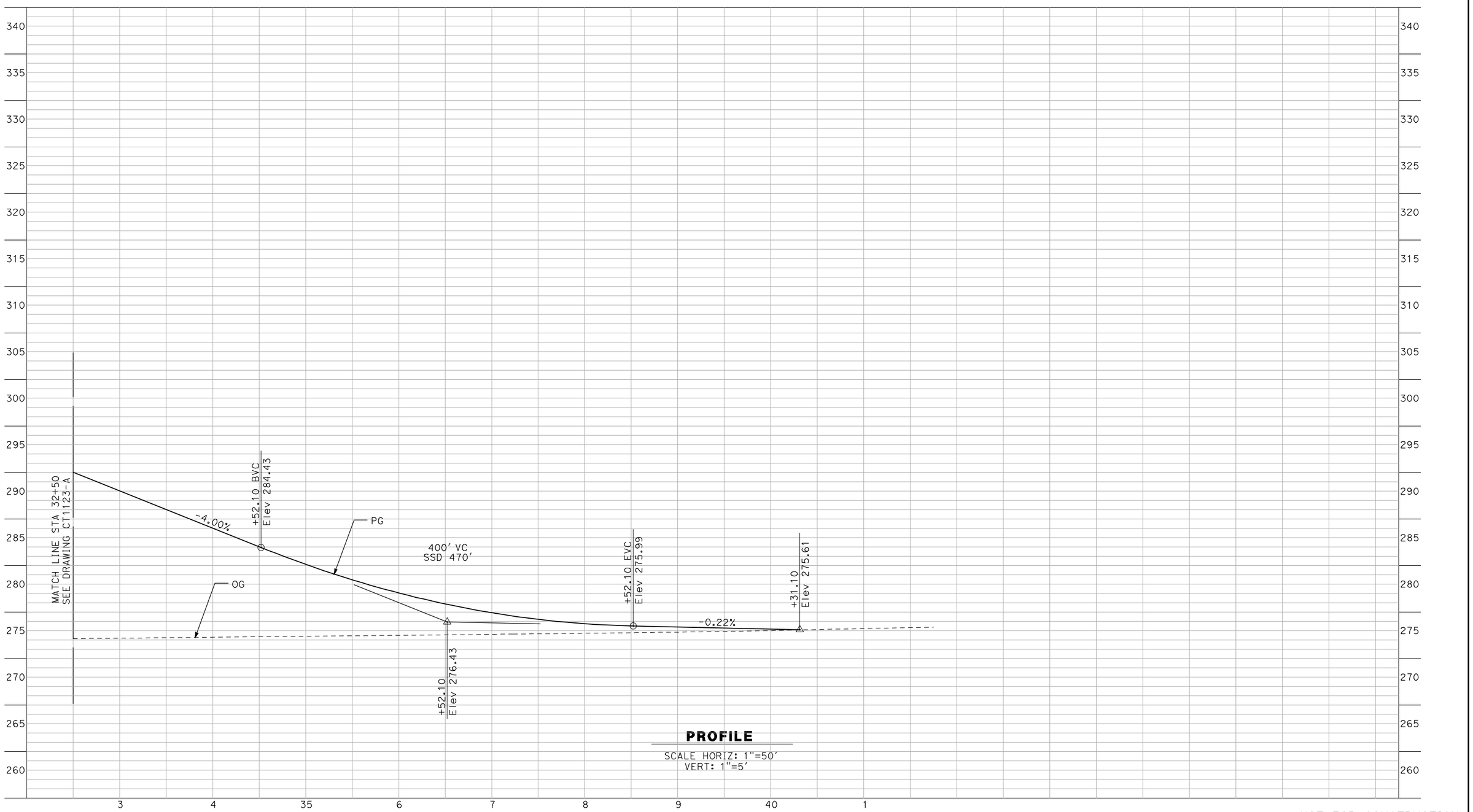
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 22
PROFILE
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1123-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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PROFILE

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VERT: 1"=5'

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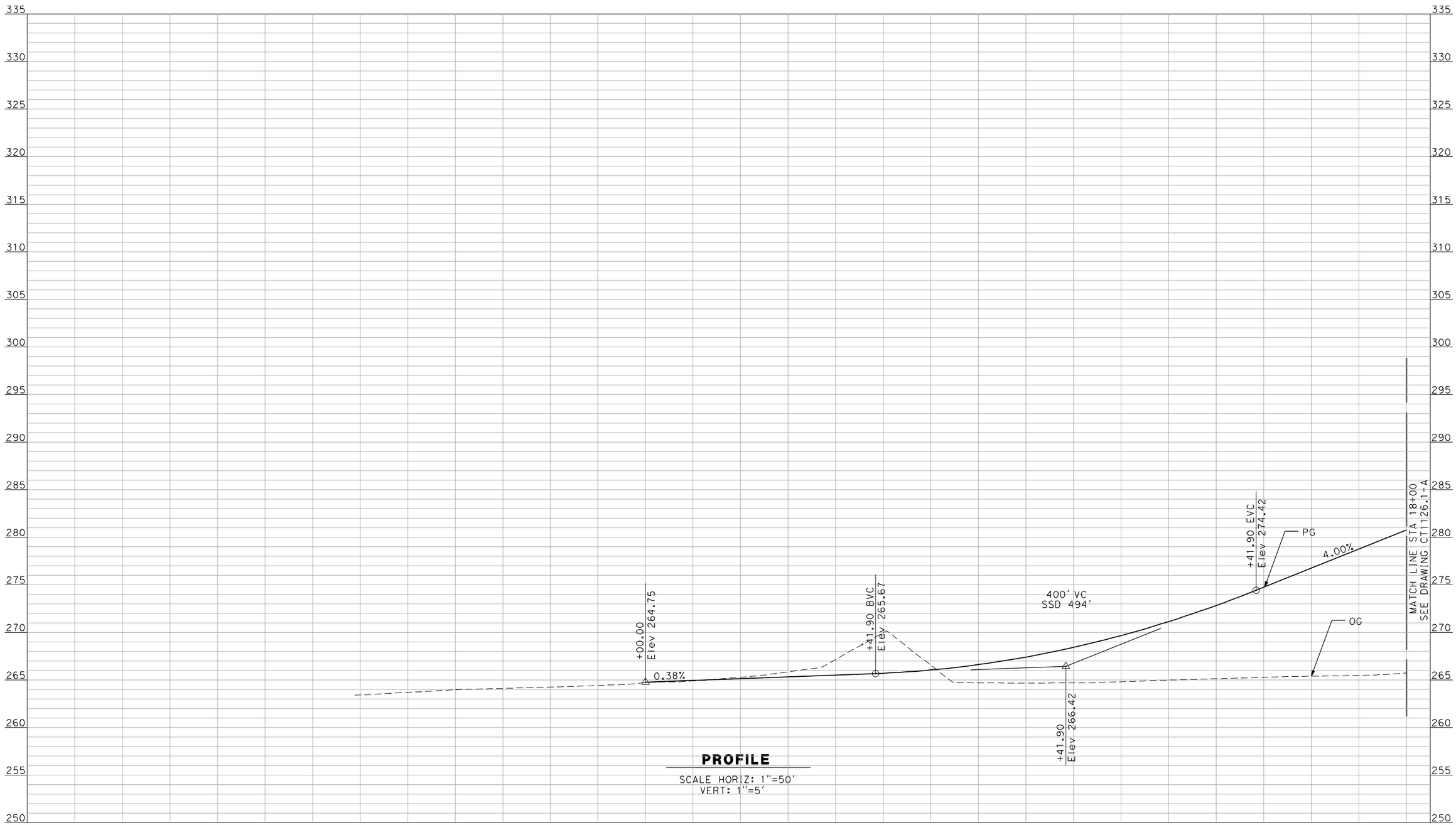
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 22
PROFILE
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1124-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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PROFILE

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VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION
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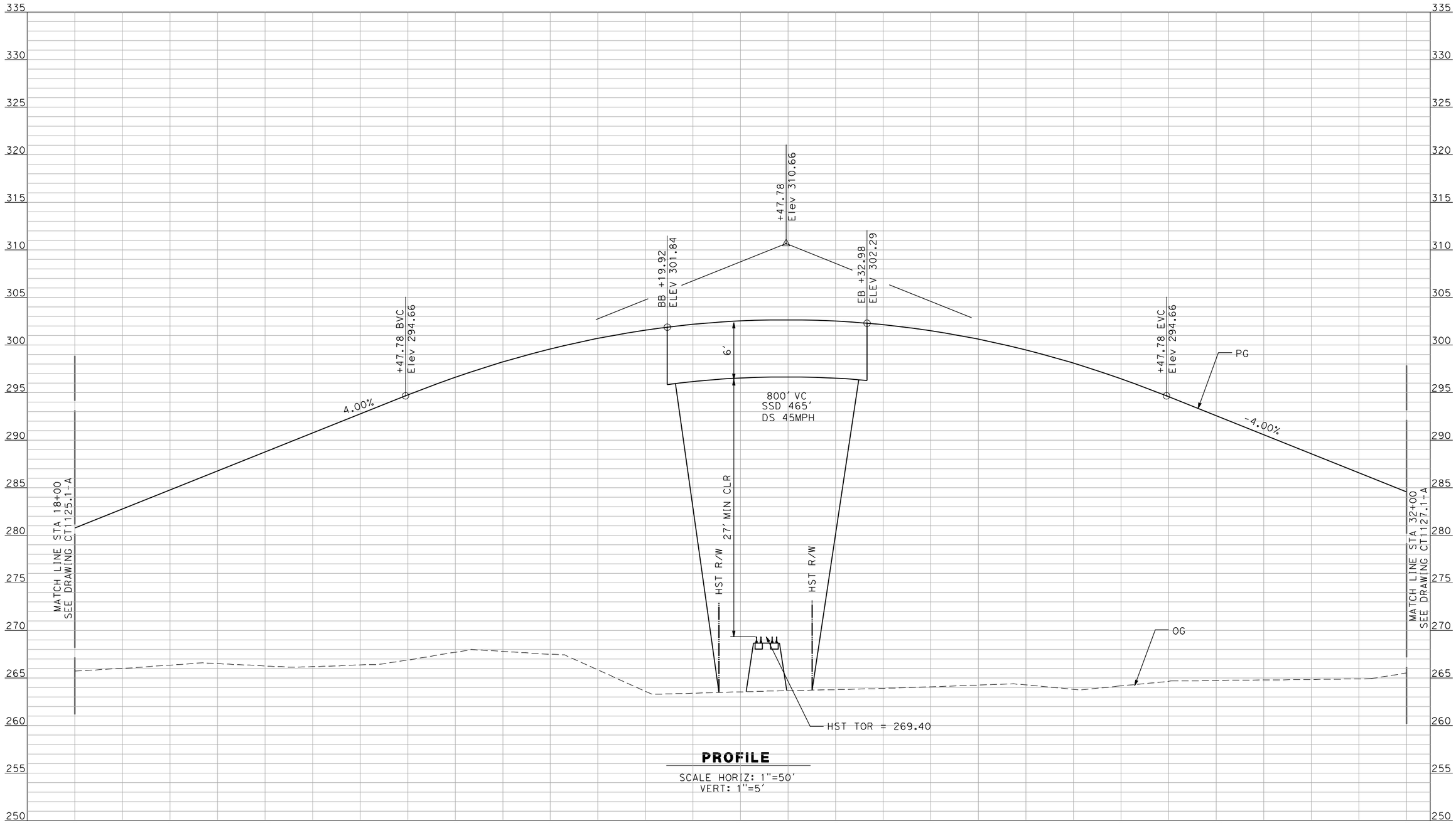
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 20
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1125.1-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY: R. GIBSON
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CHECKED BY: J. ZANDIAN
IN CHARGE: A. BOONE
DATE: 06/30/2011

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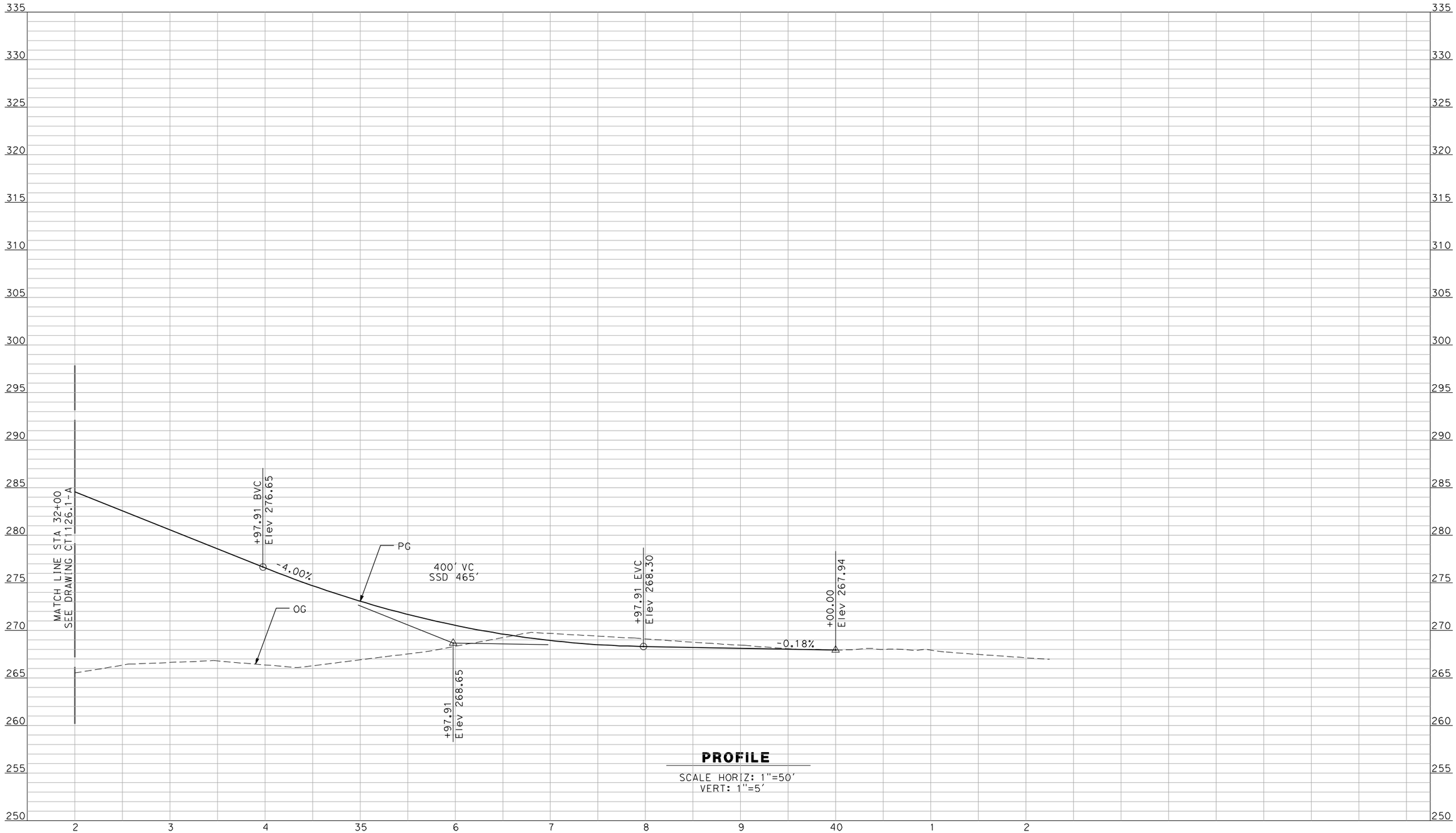
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 20
PROFILE
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1126.1-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY R. GIBSON
DRAWN BY F. DEMARCO
CHECKED BY J. ZANDIAN
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

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Technical Services, Inc.
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Sacramento, CA 95811
CH2MHILL

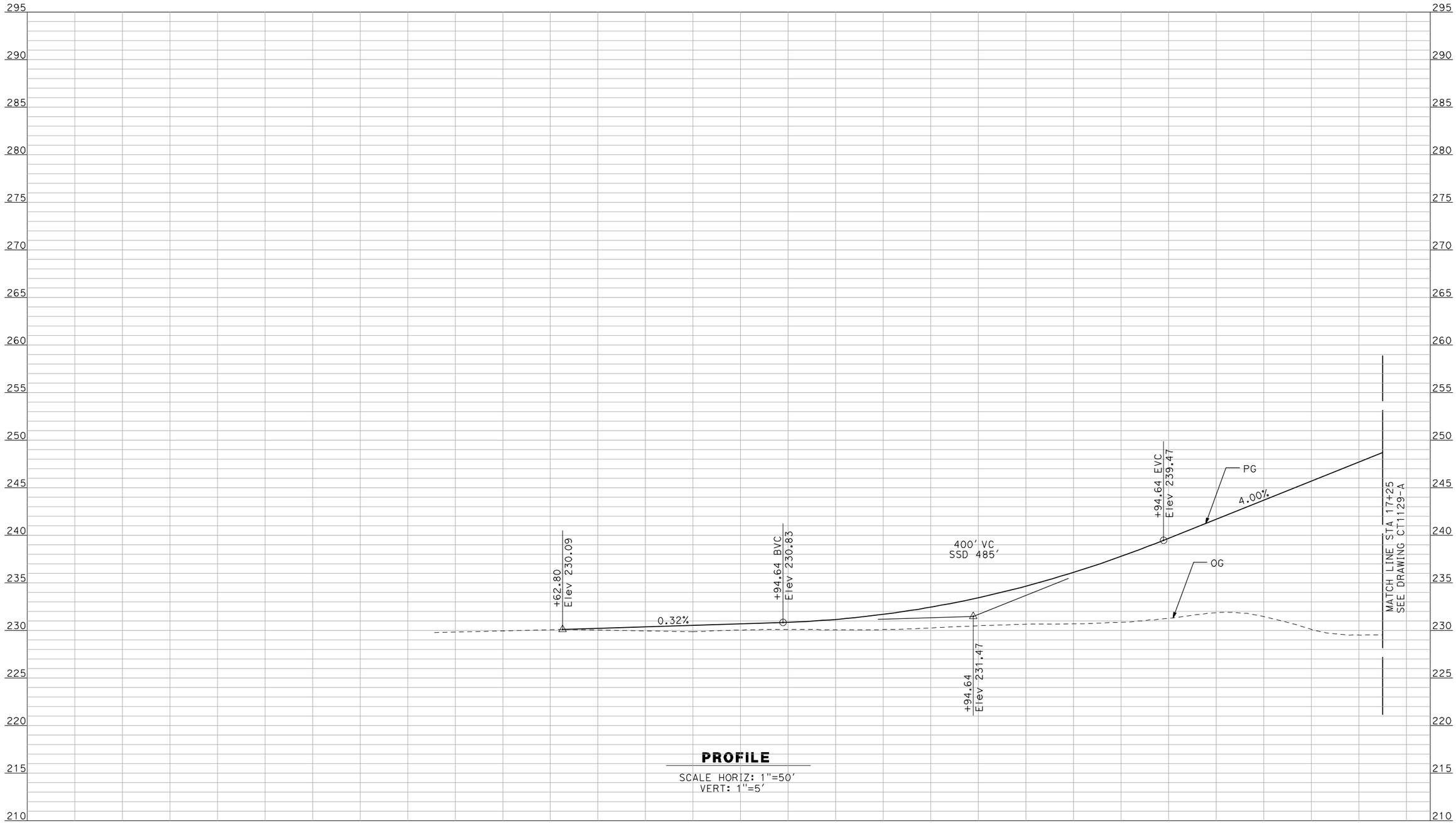
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 20
PROFILE
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1127.1-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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GibsonR1



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: R. GIBSON
DRAWN BY: F. DEMARCO
CHECKED BY: J. ZANDIAN
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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NOT FOR CONSTRUCTION

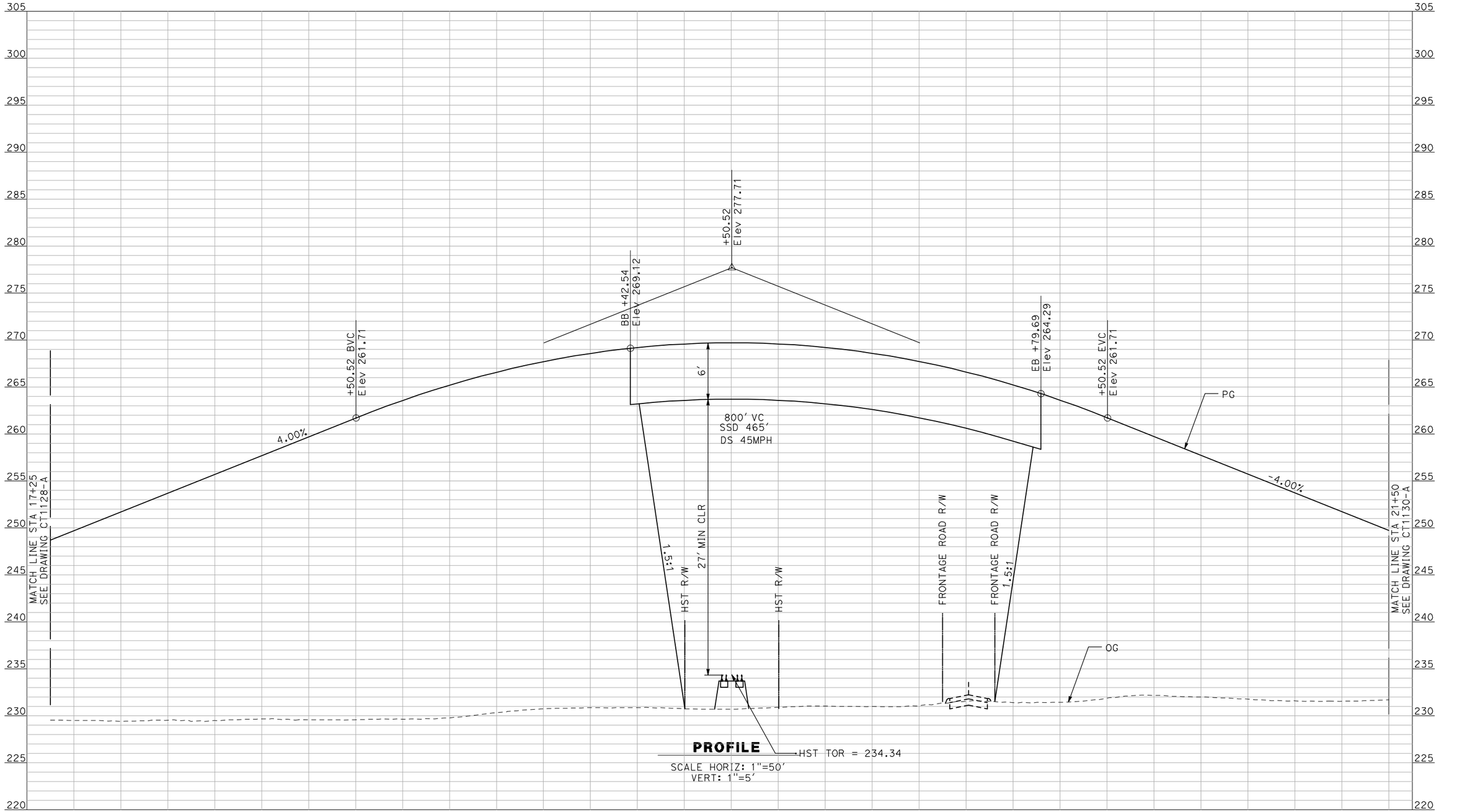
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 16
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1128-A
SCALE AS SHOWN
SHEET NO. ### OF ###



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: R. GIBSON
DRAWN BY: F. DEMARCO
CHECKED BY: J. ZANDIAN
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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CH2MHILL

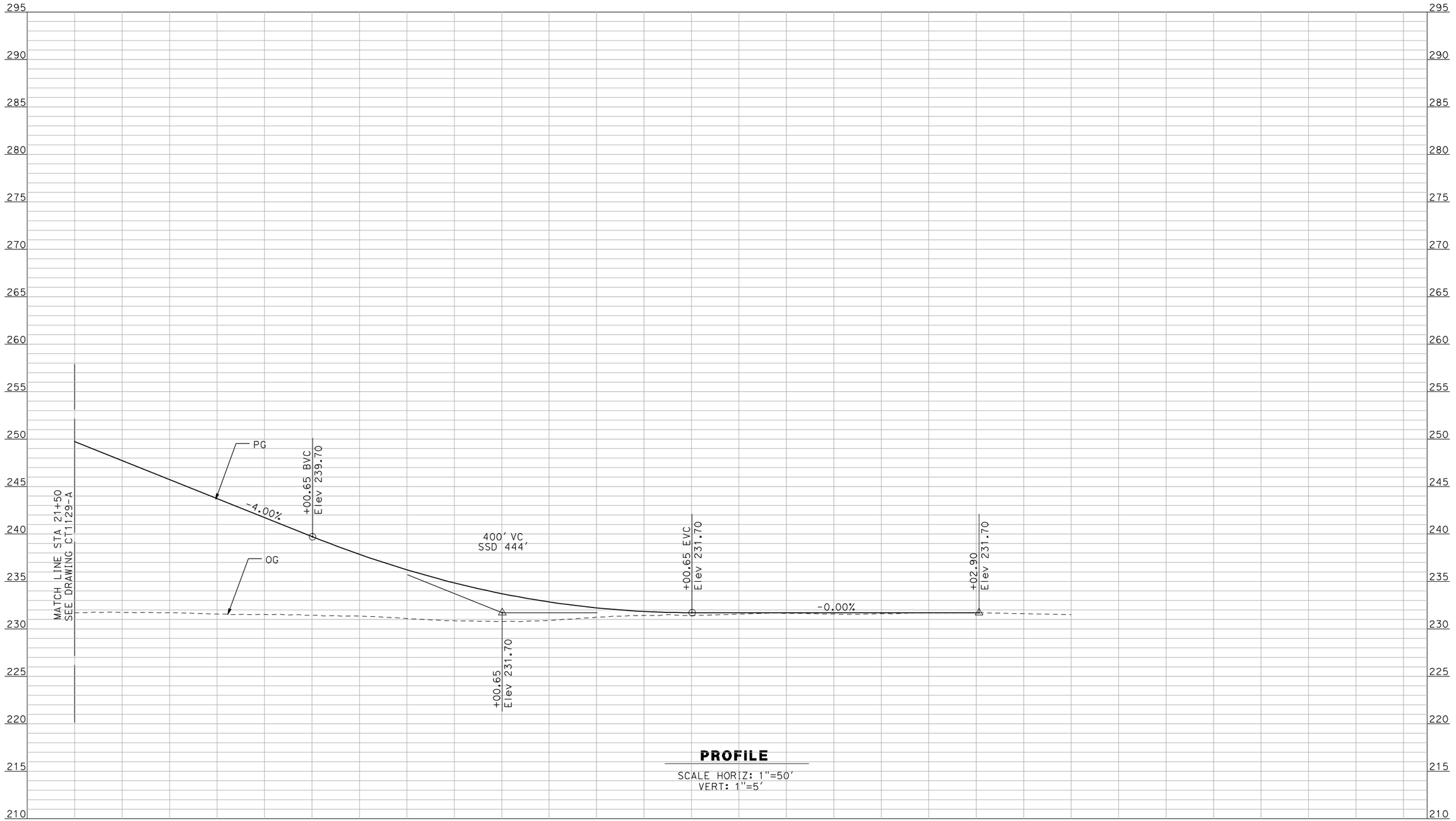
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 16
PROFILE
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1129-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: R. GIBSON
DRAWN BY: F. DEMARCO
CHECKED BY: J. ZANDIAN
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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AECOM
Technical Services, Inc.
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Sacramento, CA 95811
CH2MHILL

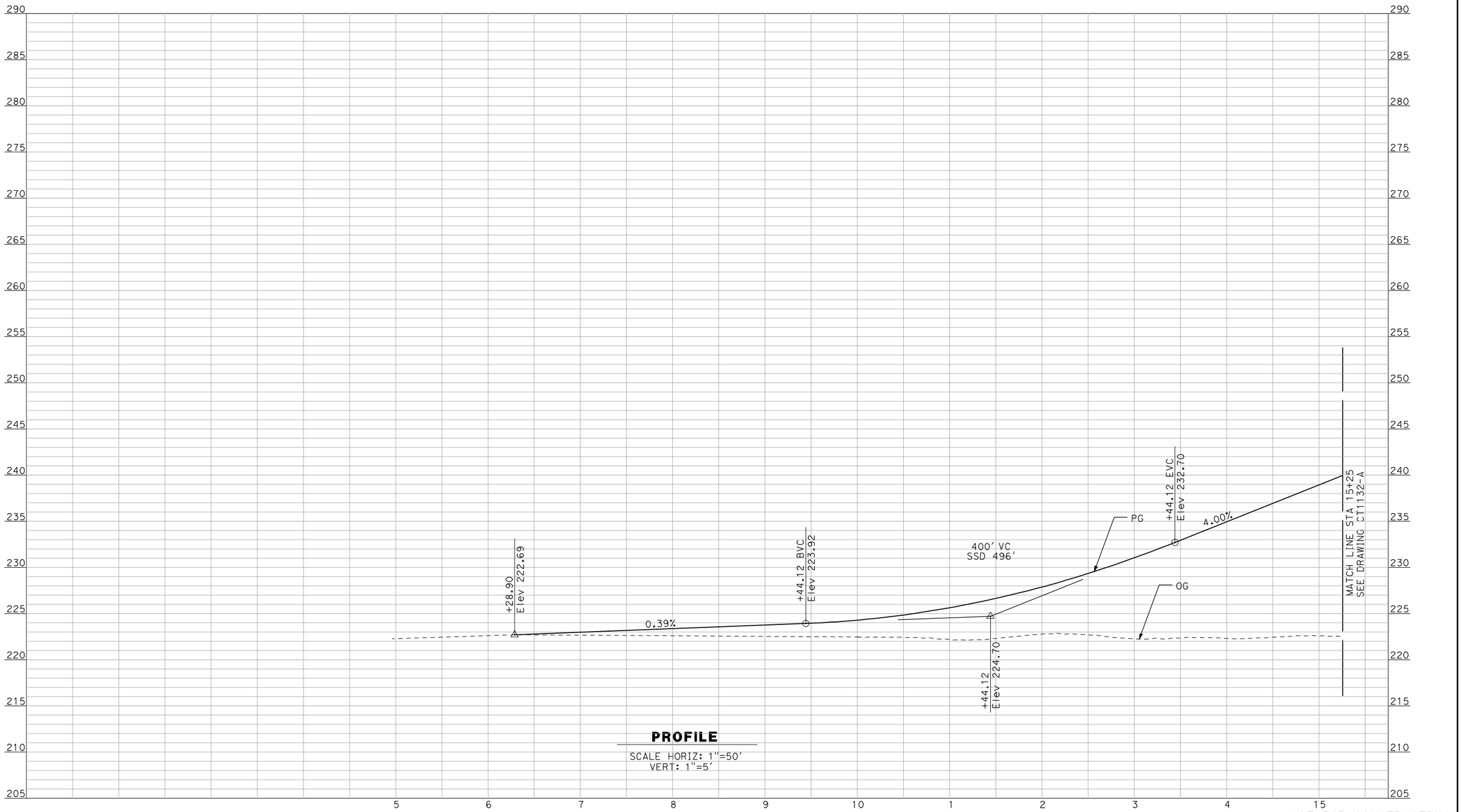
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 16
PROFILE
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1130-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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GibsonR1



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: R. GIBSON
DRAWN BY: F. DEMARCO
CHECKED BY: J. ZANDIAN
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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Sacramento, CA 95811

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

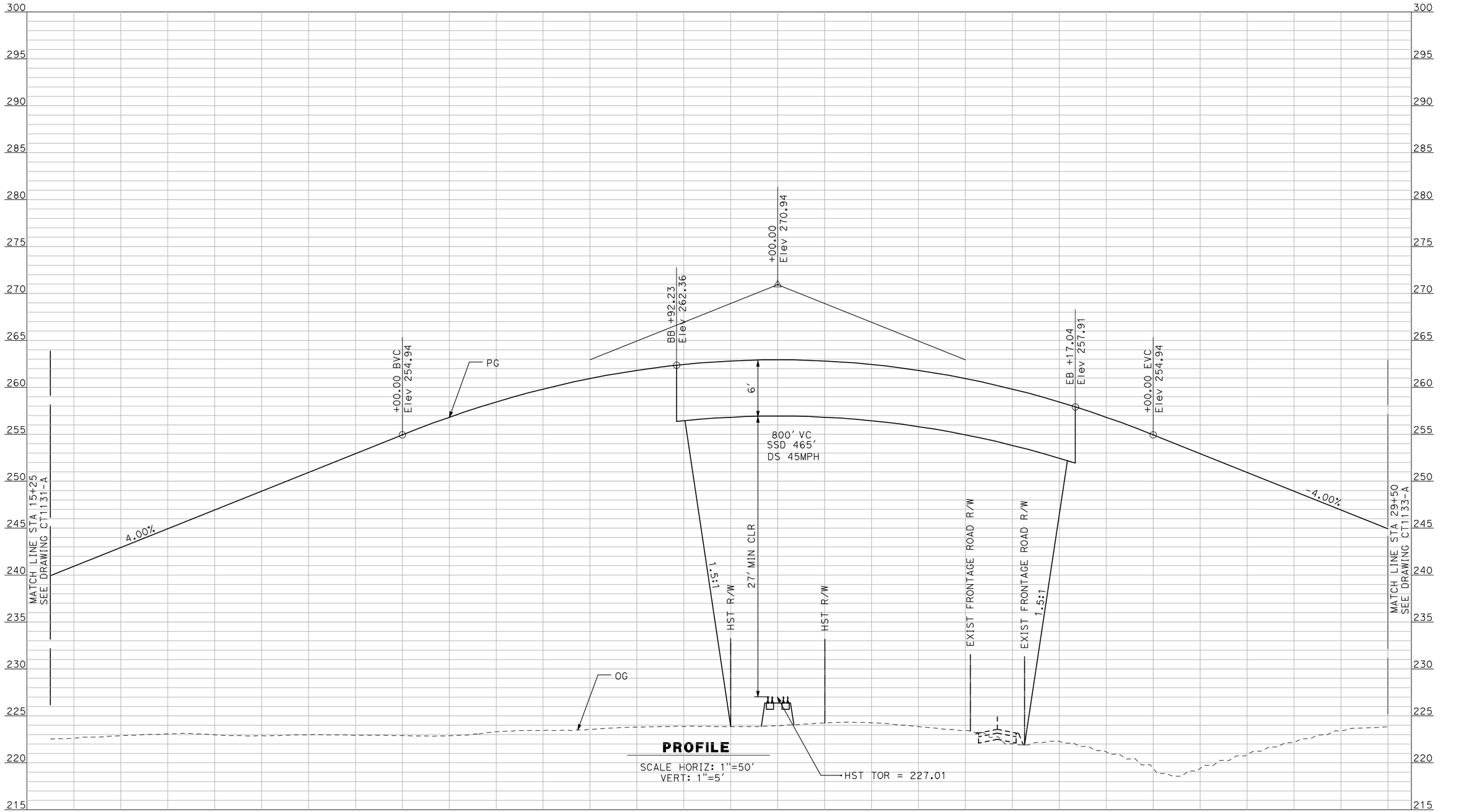
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 15
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1131-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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GibsonR1

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY F. DEMARCO
CHECKED BY J. ZANDIAN
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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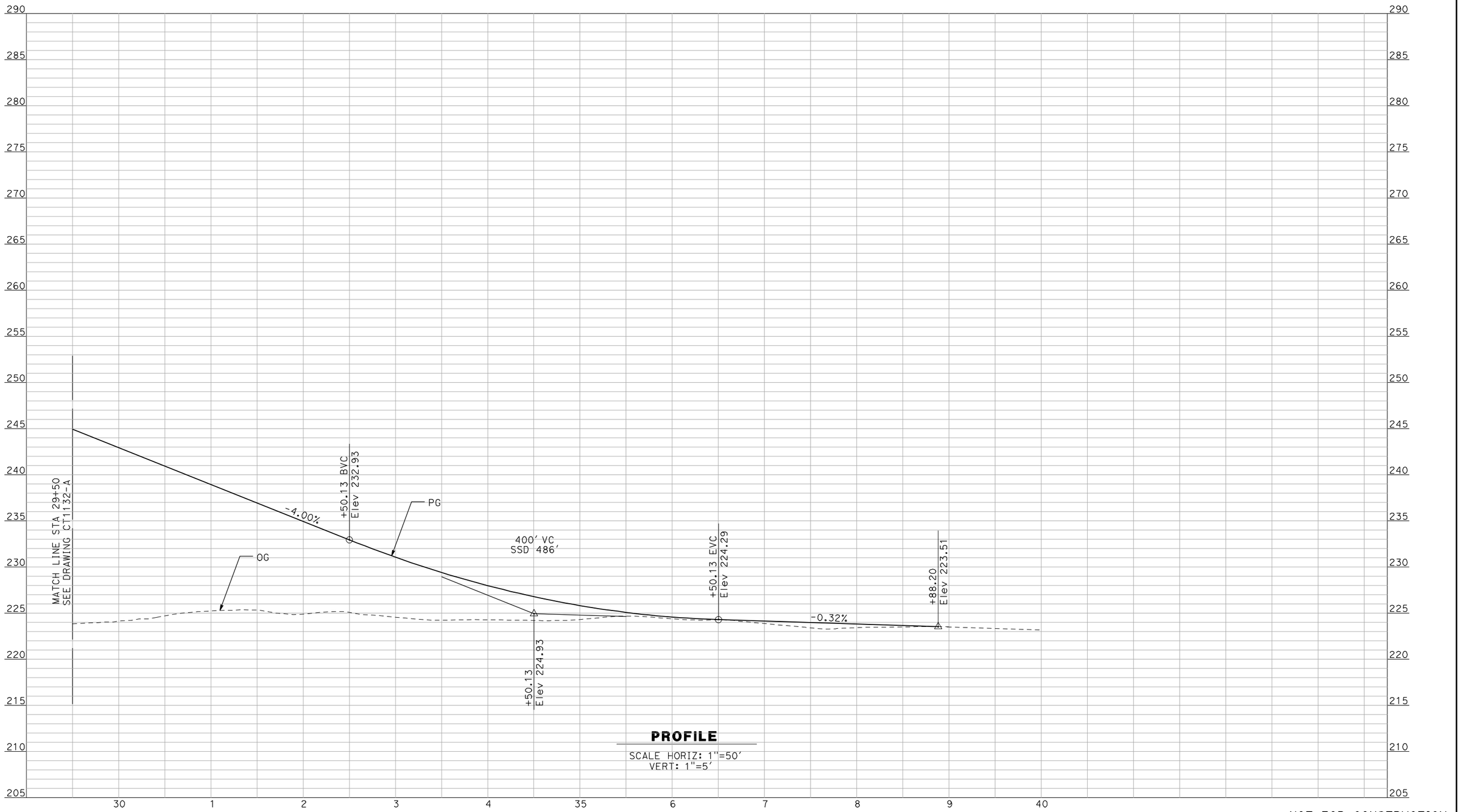
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Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 15
PROFILE
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1132-A
SCALE AS SHOWN
SHEET NO. ### OF ###



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: R. GIBSON
DRAWN BY: F. DEMARCO
CHECKED BY: J. ZANDIAN
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

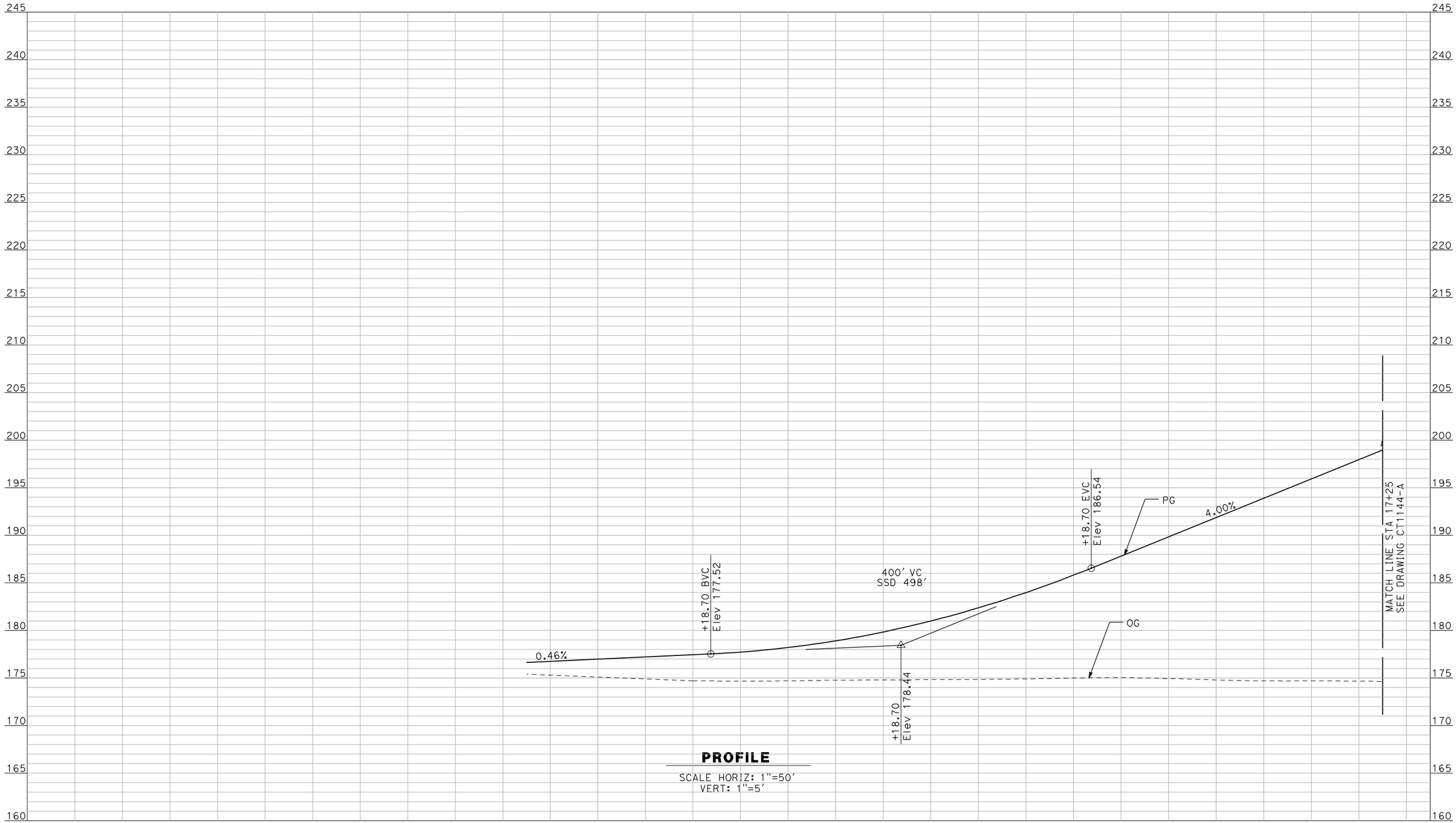
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 15
PROFILE
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1133-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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GibsonR1



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: R. GIBSON
DRAWN BY: F. DEMARCO
CHECKED BY: J. ZANDIAN
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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Sacramento, CA 95811

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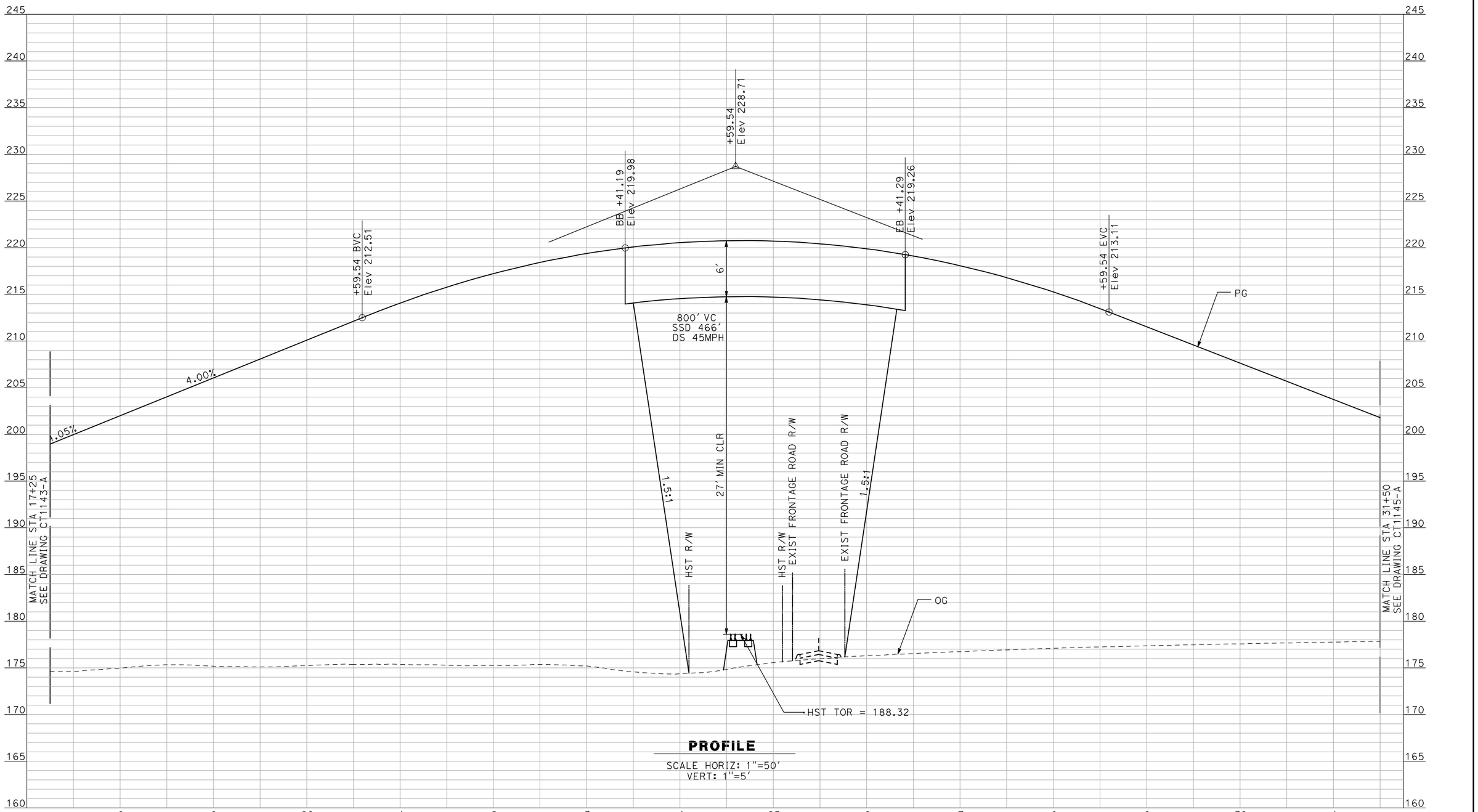
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 9
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1143-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY F. DEMARCO
CHECKED BY J. ZANDIAN
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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NOT FOR CONSTRUCTION

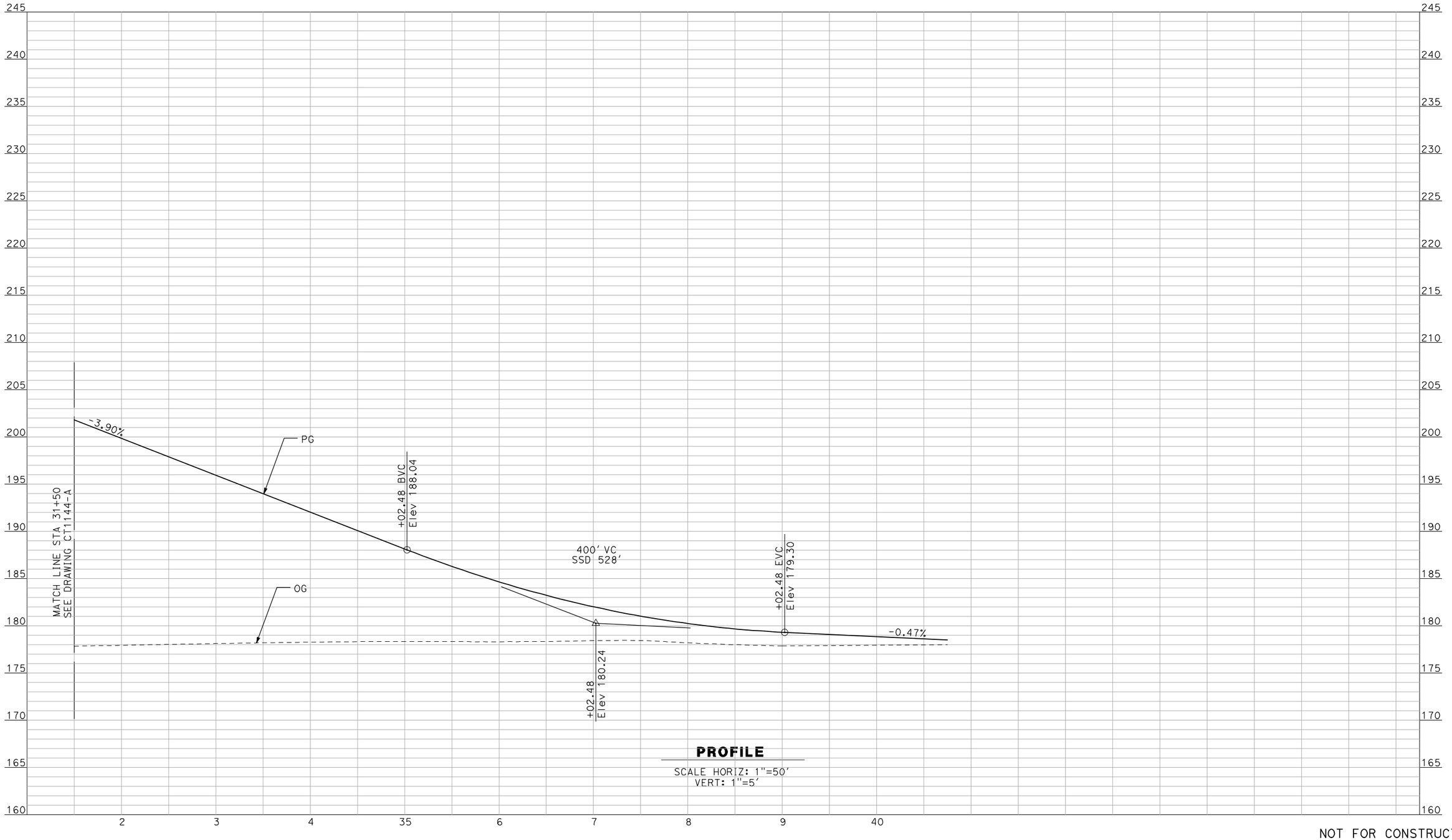
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 9
PROFILE
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1144-A
SCALE AS SHOWN
SHEET NO. ### OF ###



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

NOT FOR CONSTRUCTION
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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: R. GIBSON
DRAWN BY: F. DEMARCO
CHECKED BY: J. ZANDIAN
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

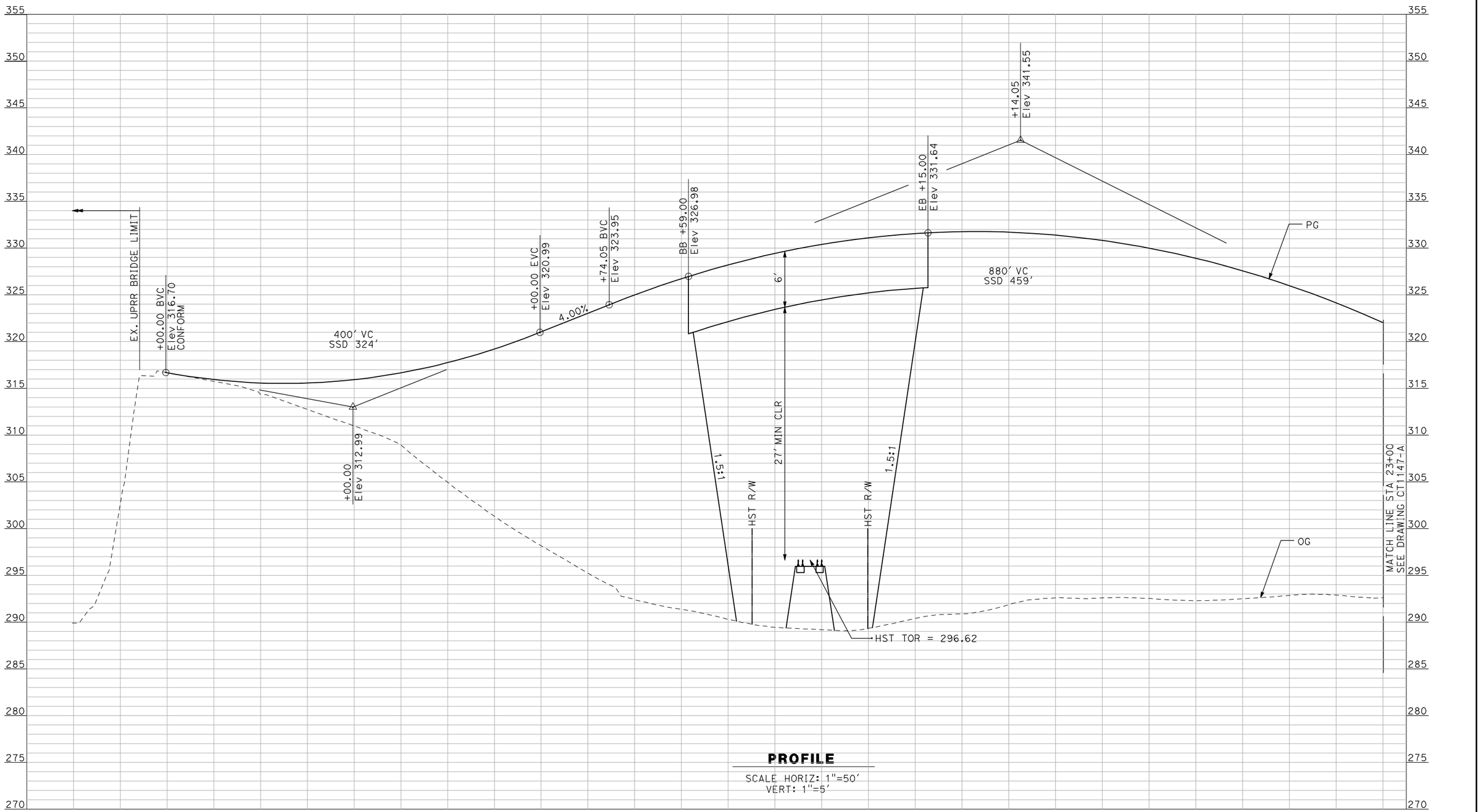
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
GRADE SEPARATION - ROAD 9
PROFILE
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1145-A
SCALE AS SHOWN
SHEET NO. OF ###

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GibsonR1



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: R. GIBSON
DRAWN BY: F. DEMARCO
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

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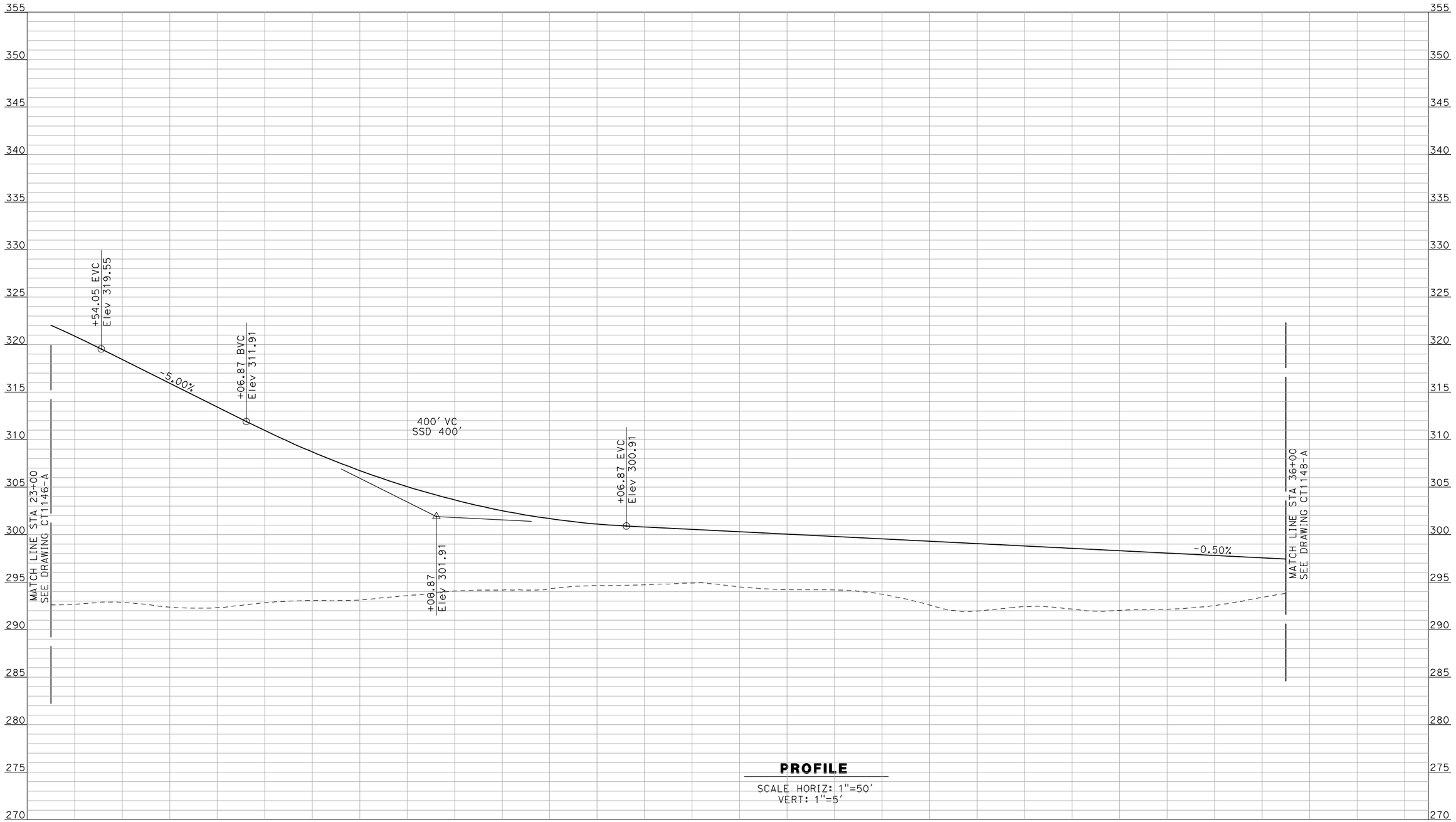
NOT FOR CONSTRUCTION

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Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAINLINE - HYBRID
GRADE SEPARATION - AVENUE 7
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1146-A
SCALE AS SHOWN
SHEET NO. OF ###



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: R. GIBSON
DRAWN BY: F. DEMARCO
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

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NOT FOR CONSTRUCTION

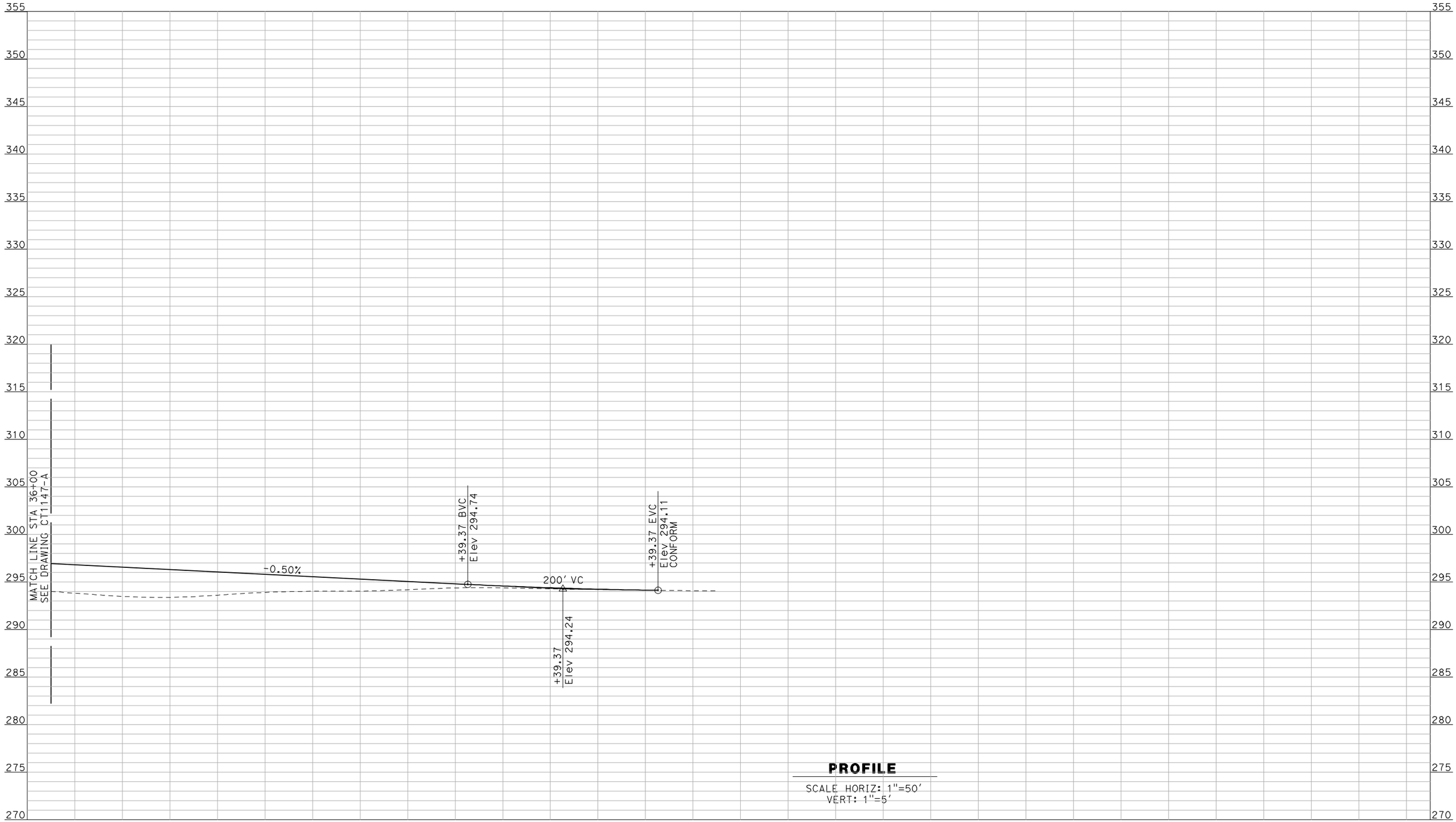
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Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAINLINE - HYBRID
GRADE SEPARATION - AVENUE 7
PROFILE
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1147-A
SCALE AS SHOWN
SHEET NO. OF ###

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: R. GIBSON
DRAWN BY: F. DEMARCO
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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Sacramento, CA 95811
CH2MHILL

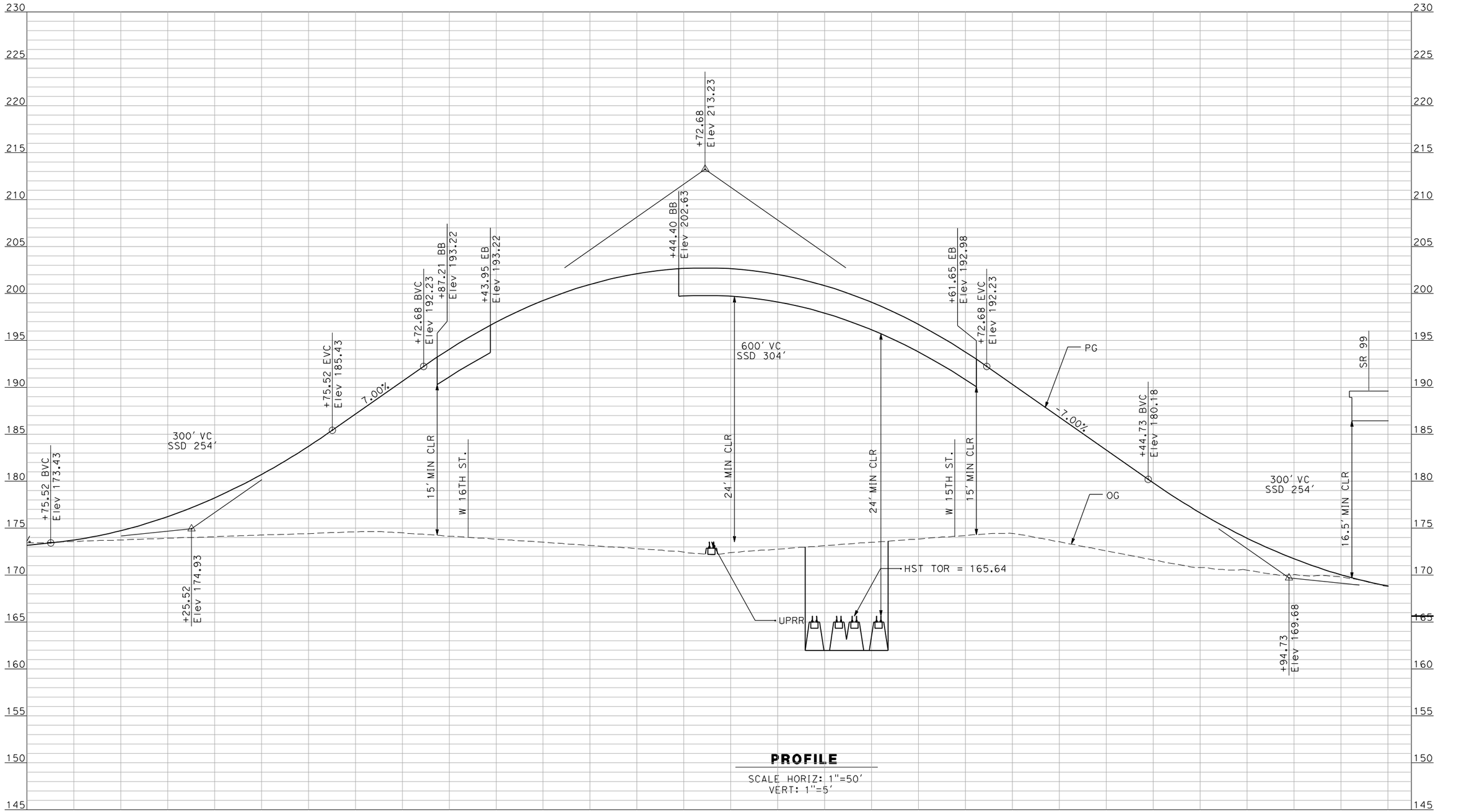
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAINLINE - HYBRID
GRADE SEPARATION - AVENUE 7
PROFILE
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT1148-A
SCALE AS SHOWN
SHEET NO. OF ###

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GibsonR1



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION
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DESIGNED BY: R. GIBSON
DRAWN BY: F. DEMARCO
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 06/30/2011

RECORD SET
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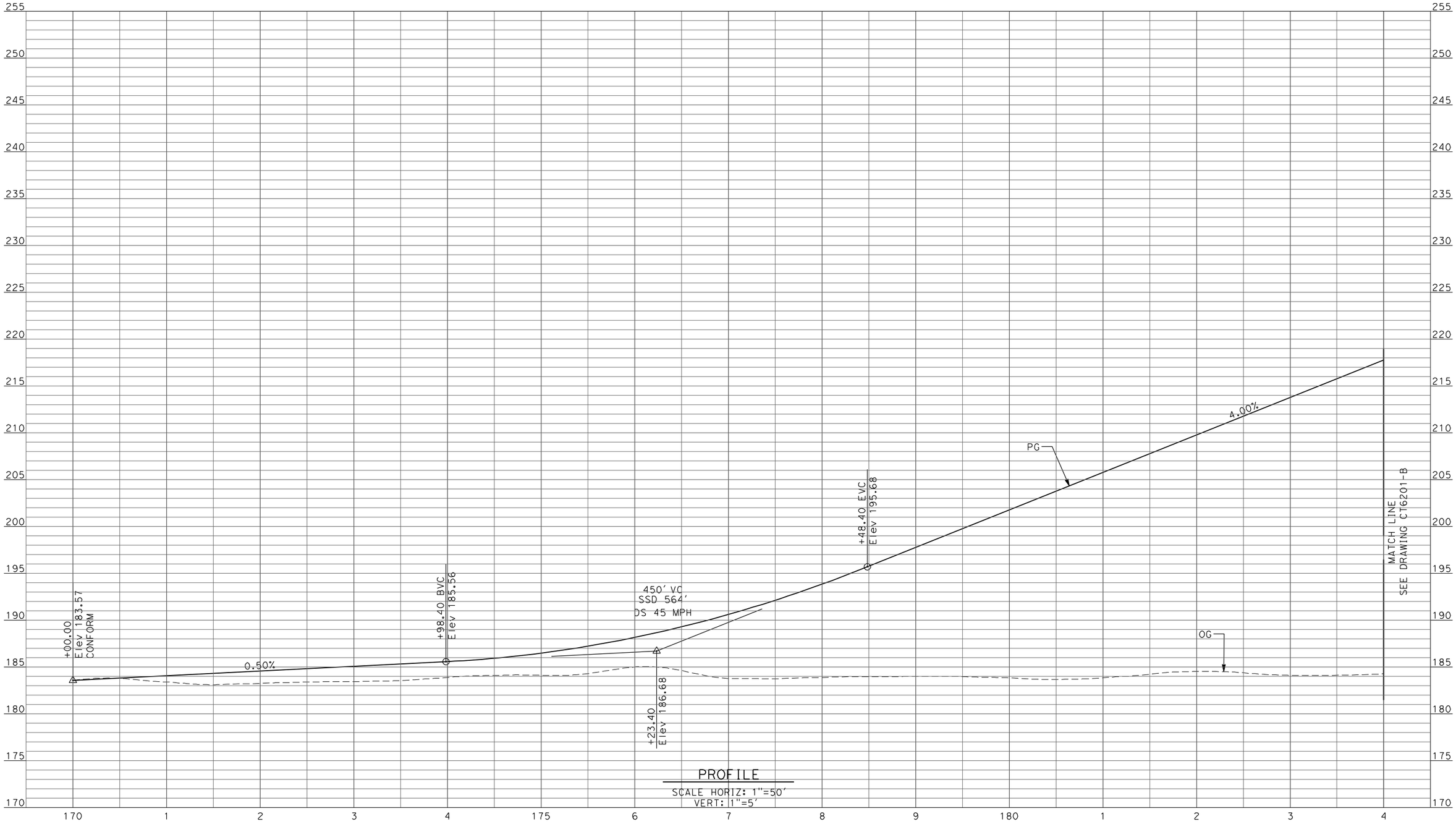
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION - HYBRID
GRADE SEPARATION - G Street
PROFILE
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CT1149-A
SCALE AS SHOWN
SHEET NO. OF ###

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PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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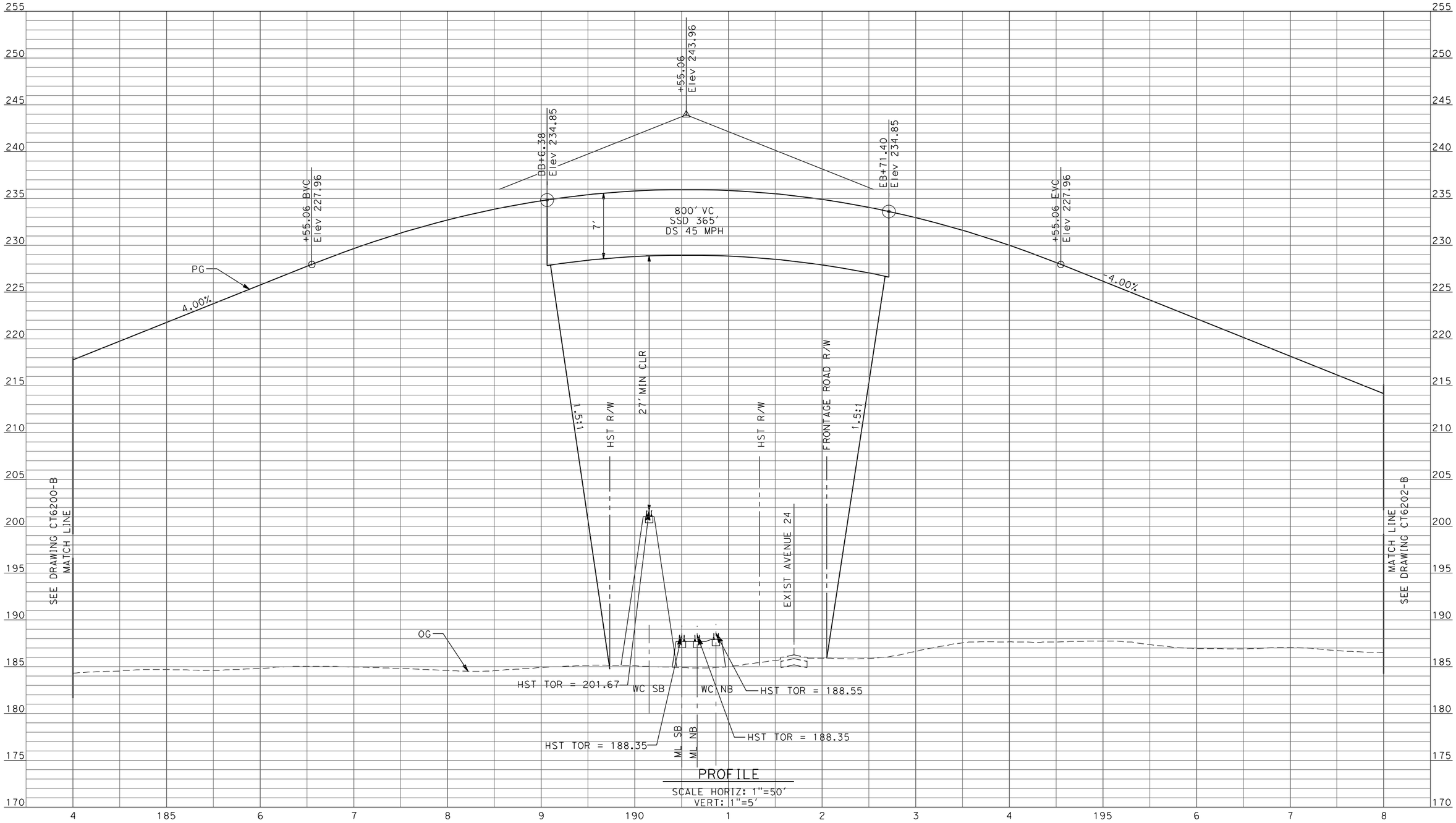
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAINLINE/WYE DO - (HYBRID)
GRADE SEPARATION - ROAD 10 ALT 1
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6200-B
SCALE AS SHOWN
SHEET NO. ### OF ###



PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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Sacramento, CA 95811
CH2MHILL

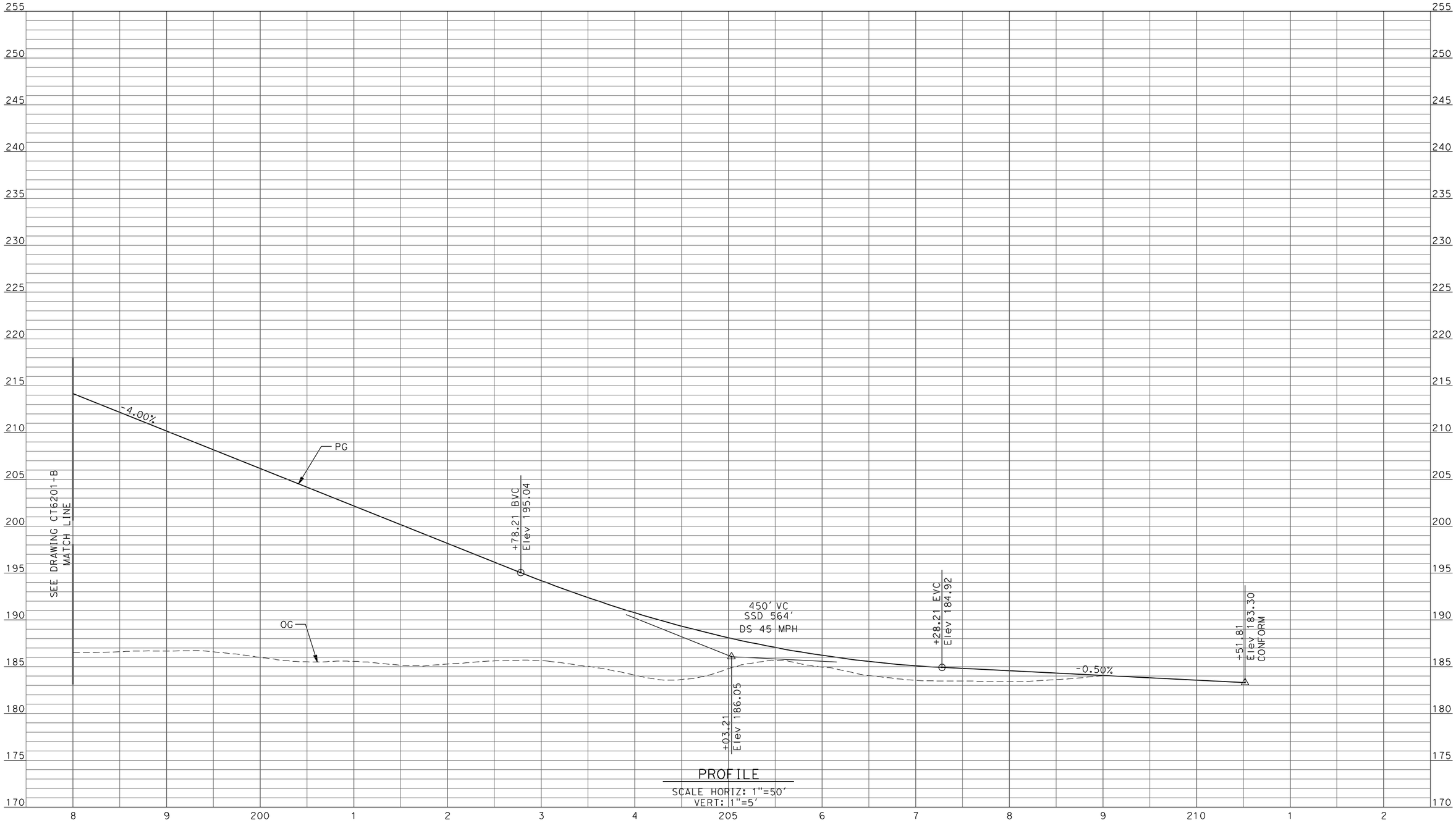
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAINLINE/WYE DO - (HYBRID)
GRADE SEPARATION - ROAD 10 ALT 1
PROFILE
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6201-B
SCALE AS SHOWN
SHEET NO. ### OF ###

4/27/2011 7:02:09 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 3 - hybridvolume 1b - hybrid grade separation\Profile\CT6201-B.dgn ayeled



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

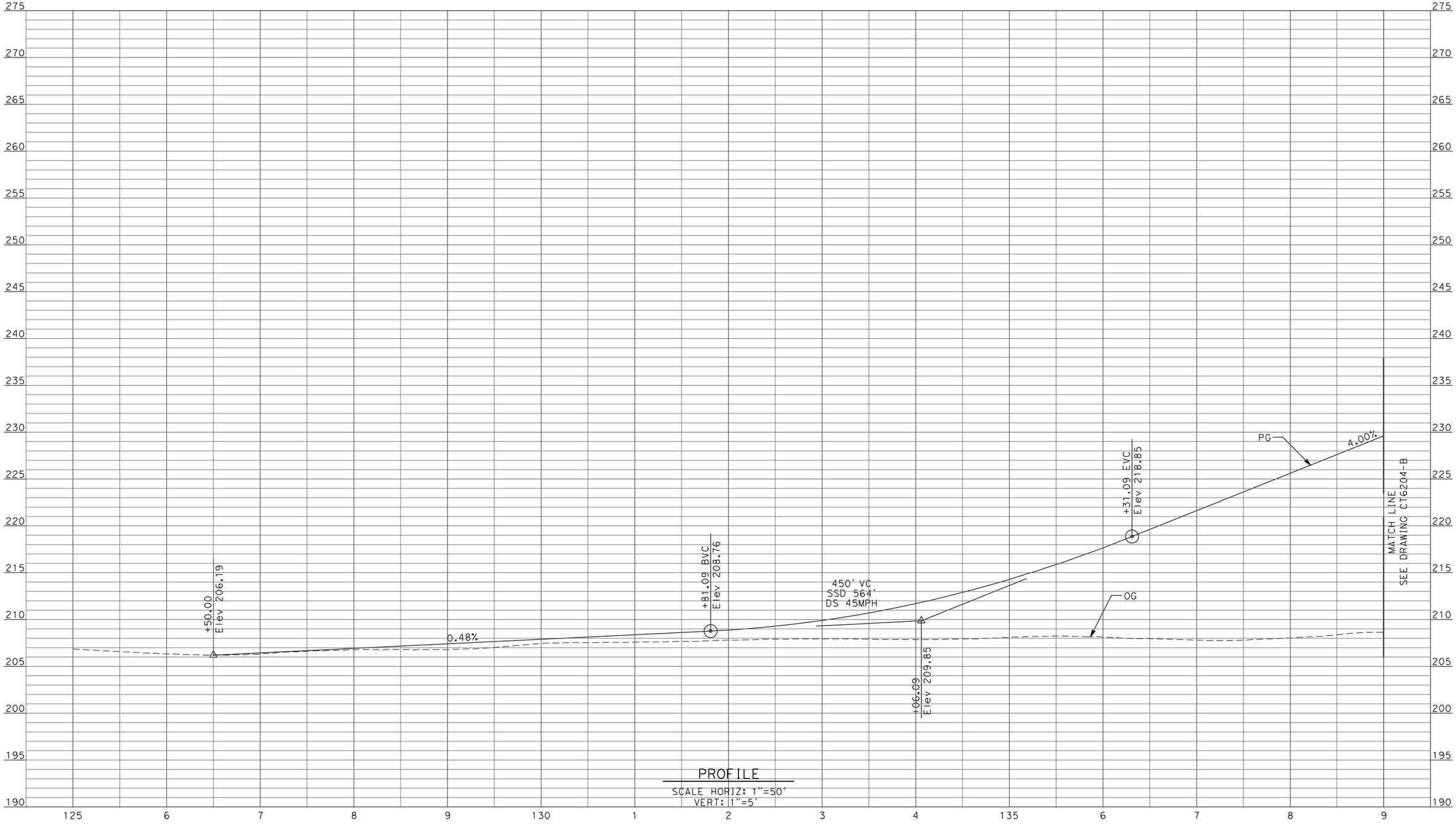
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAINLINE/WYE DO - (HYBRID)
GRADE SEPARATION - ROAD 10 ALT 1
PROFILE
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6202-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

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CH2MHILL

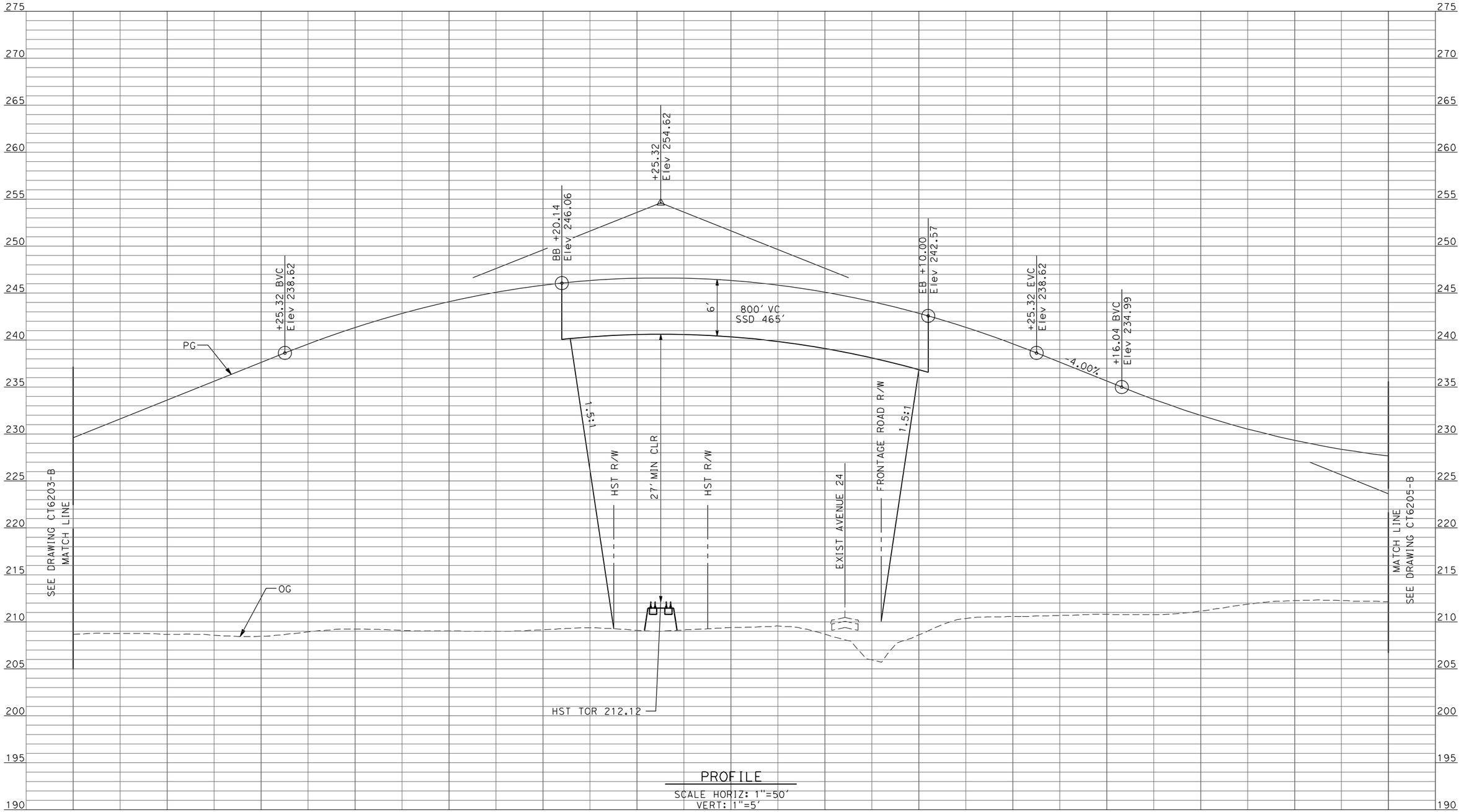
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAINLINE/MERCED DO - (HYBRID)
GRADE SEPARATION - ROAD 13
PROFILE
SHEET 1 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT6203-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

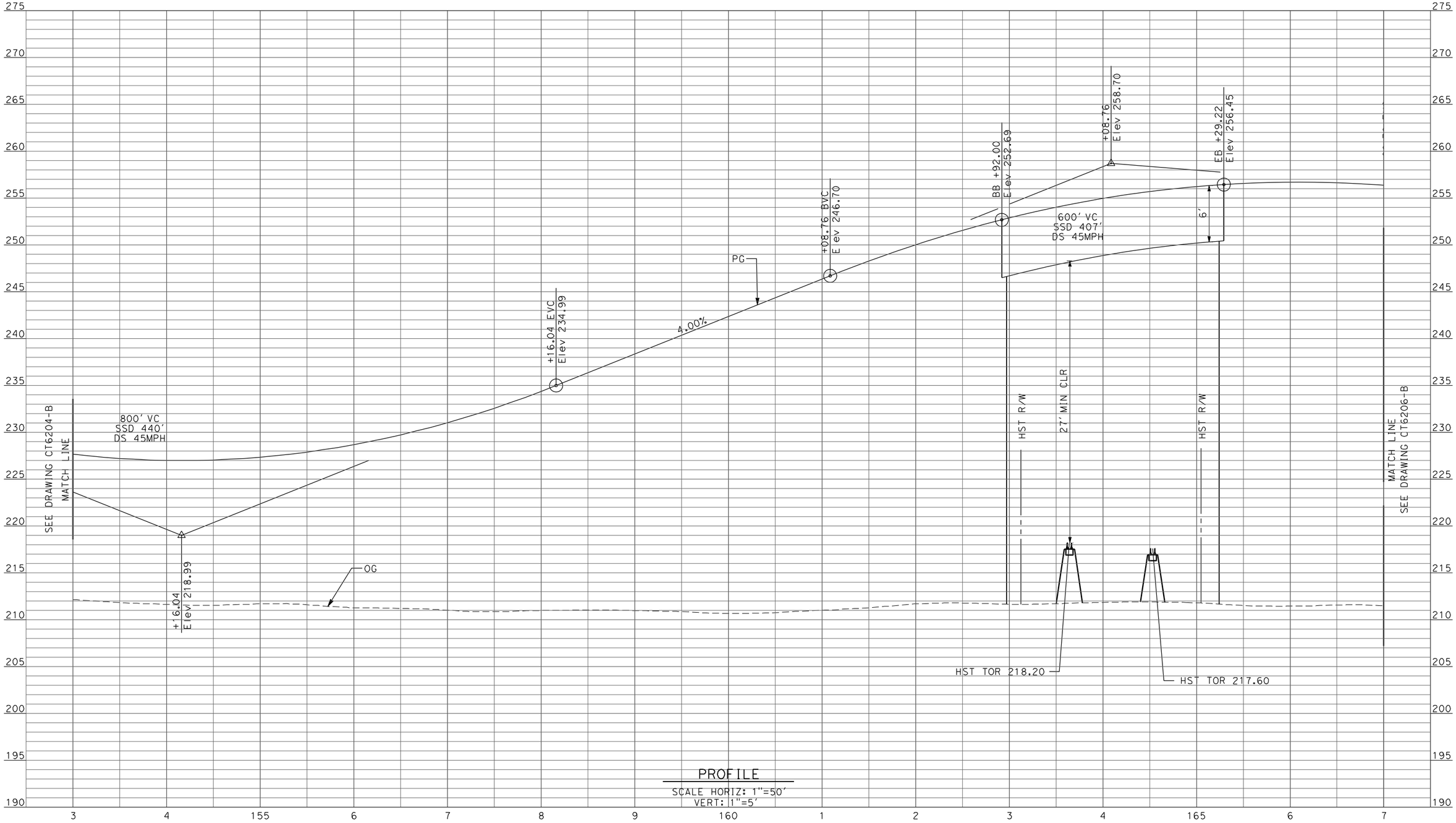
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAINLINE/MERCED DO - (HYBRID)
GRADE SEPARATION - ROAD 13
PROFILE
SHEET 2 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT6204-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ReyesCl

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PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
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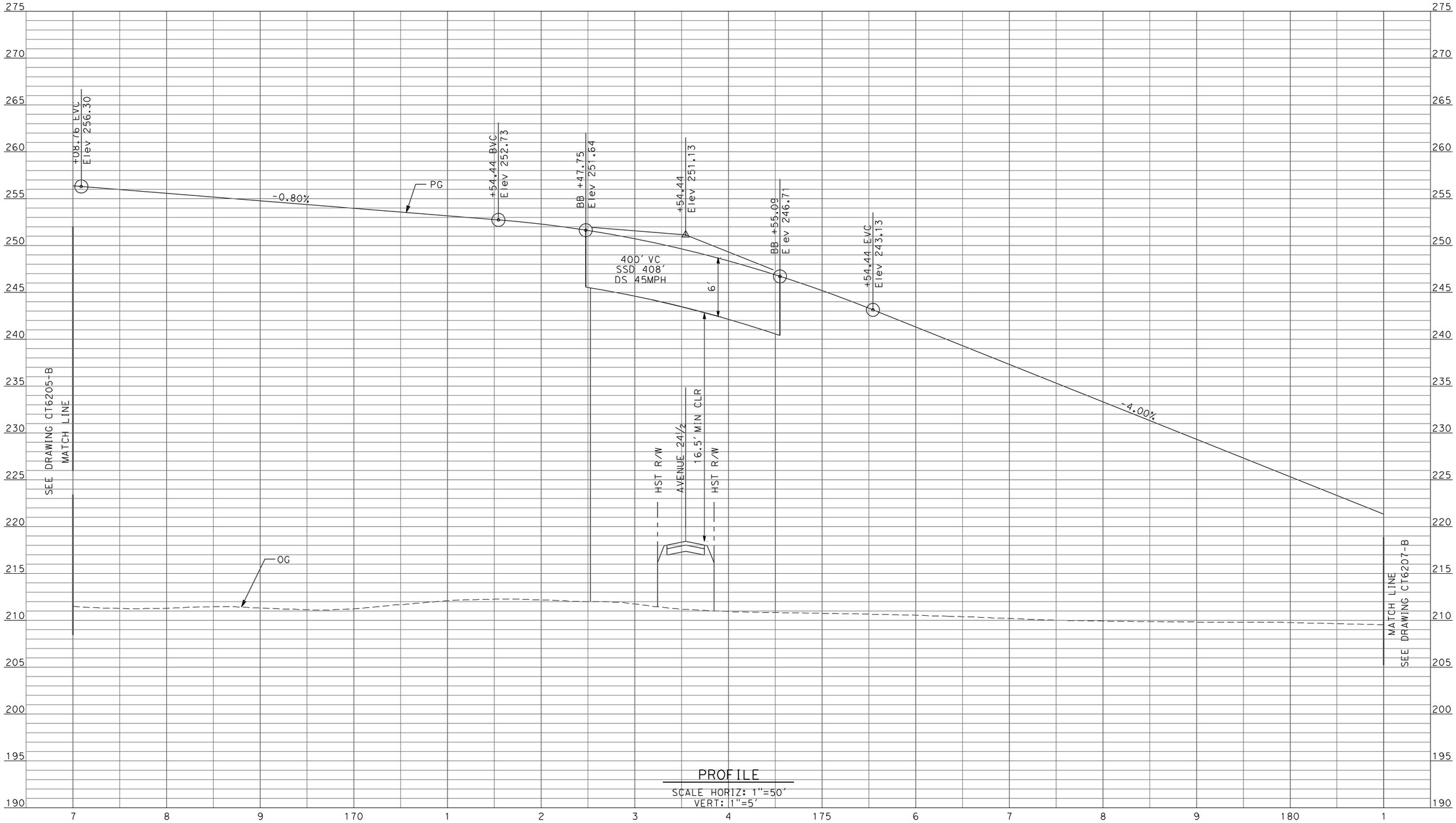
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Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAINLINE/MERCED DO - (HYBRID)
GRADE SEPARATION - ROAD 13
PROFILE
SHEET 3 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT6205-B
SCALE AS SHOWN
SHEET NO. ### OF ###



PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

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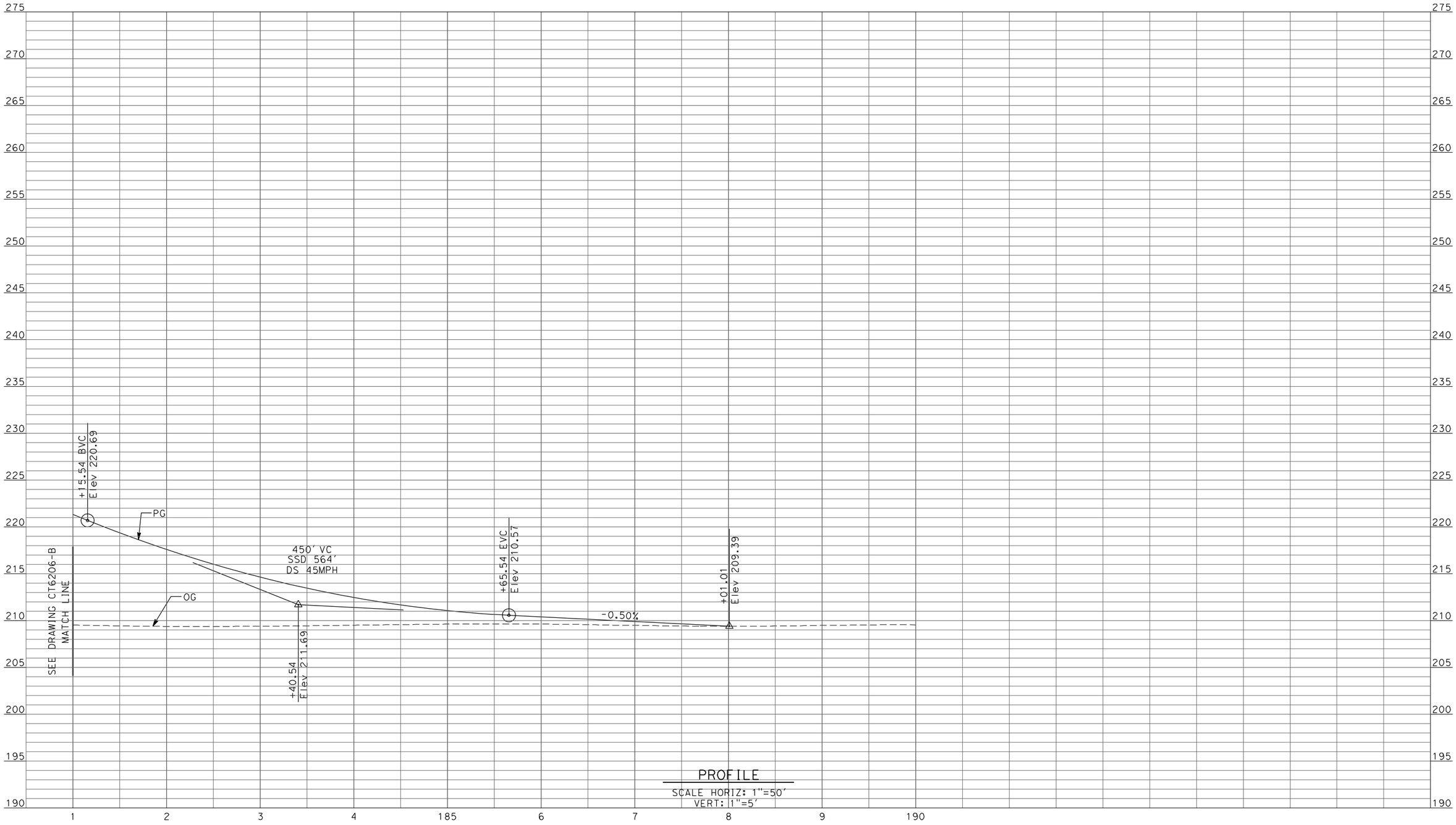
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAINLINE/MERCED DO - (HYBRID)
GRADE SEPARATION - ROAD 13
PROFILE
SHEET 4 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT6206-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

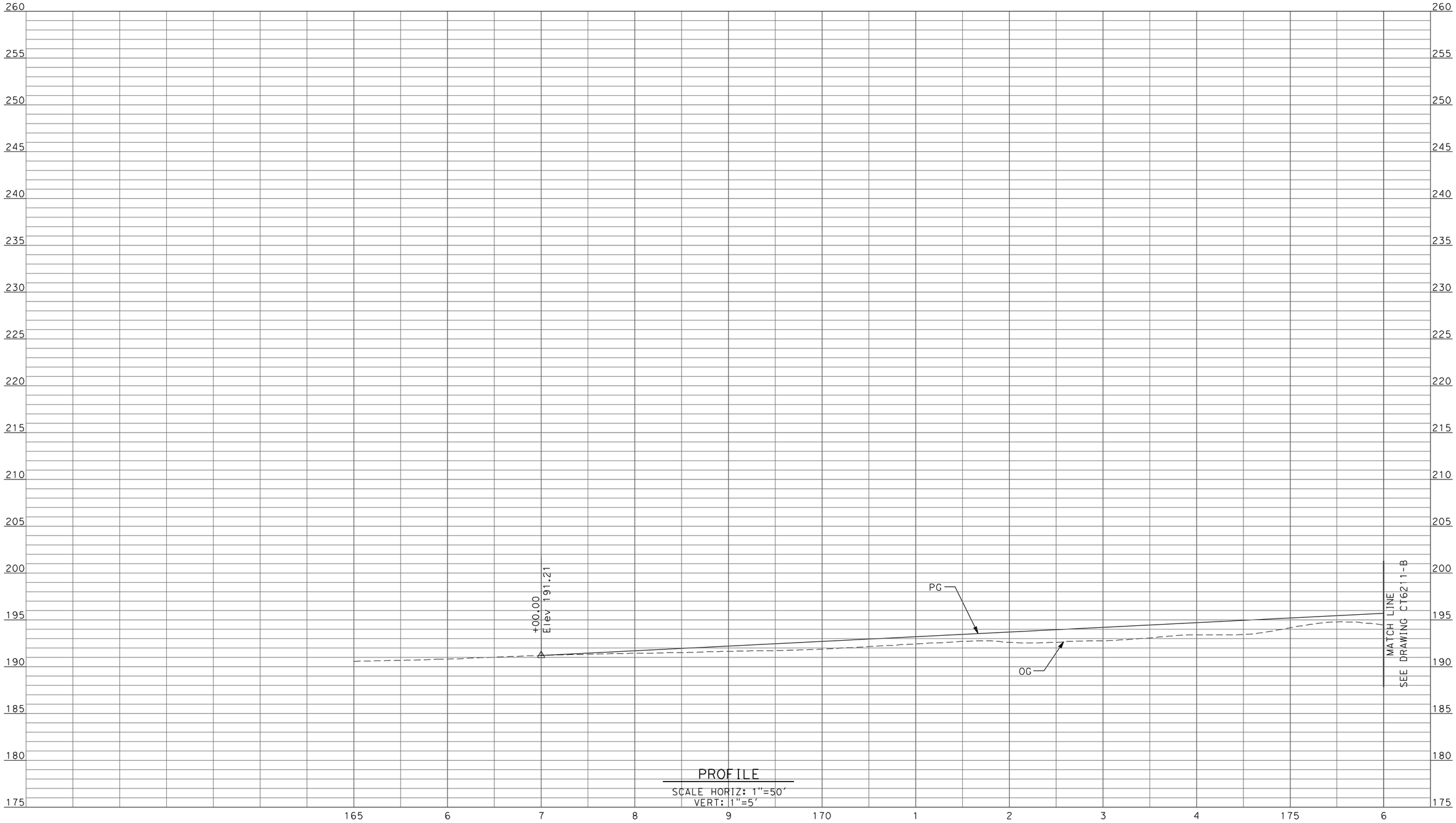
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAINLINE/MERCED DO - (HYBRID)
GRADE SEPARATION - ROAD 13
PROFILE
SHEET 5 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT6207-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ReyesC1

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1/5/2012 7:08:38 AM
ReyesCl



PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

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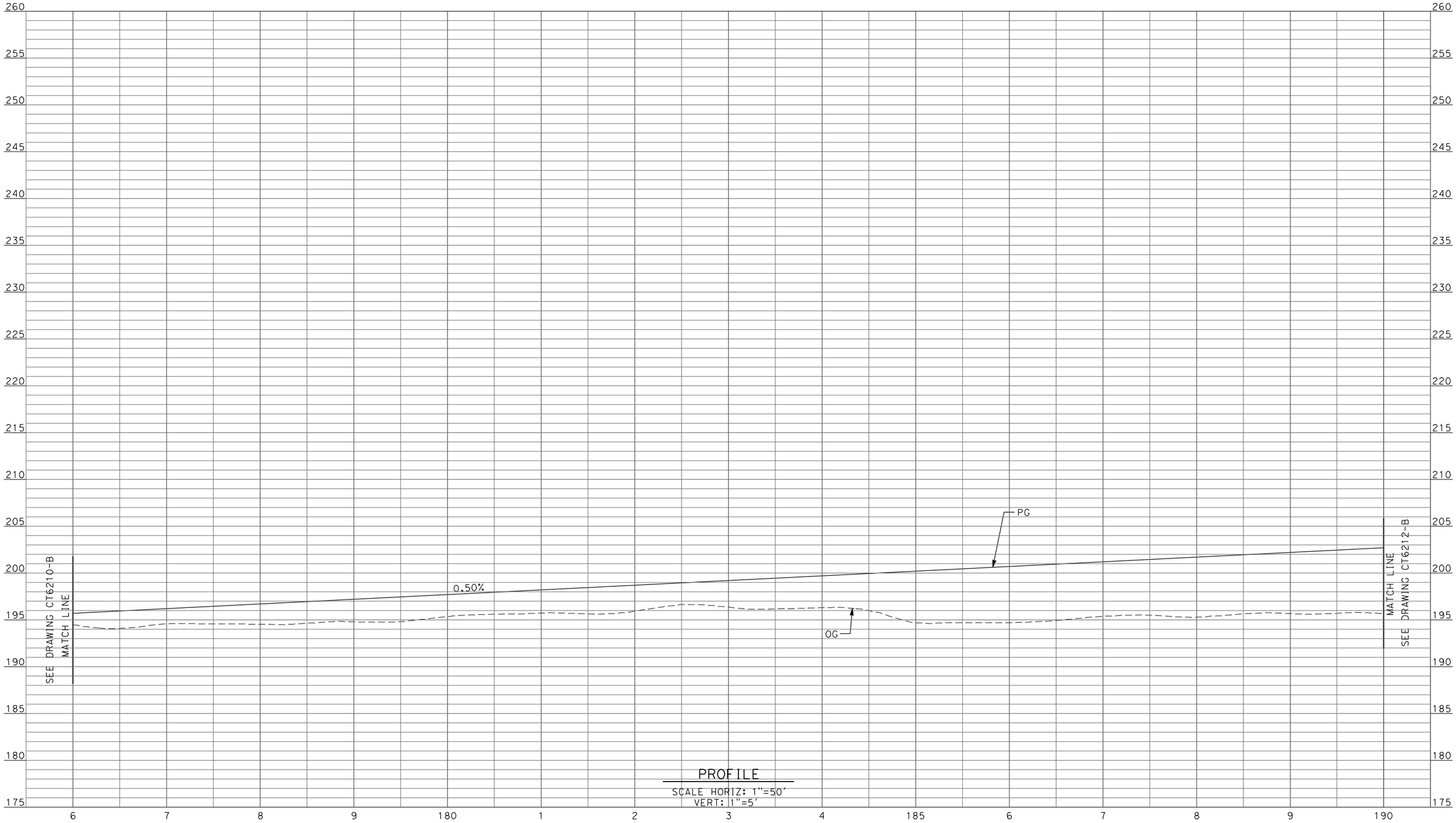
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 25
PROFILE
SHEET 1 OF 13

CONTRACT NO. HSR06-007
DRAWING NO. CT6210-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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1/5/2012 7:08:43 AM
ReyesCl



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

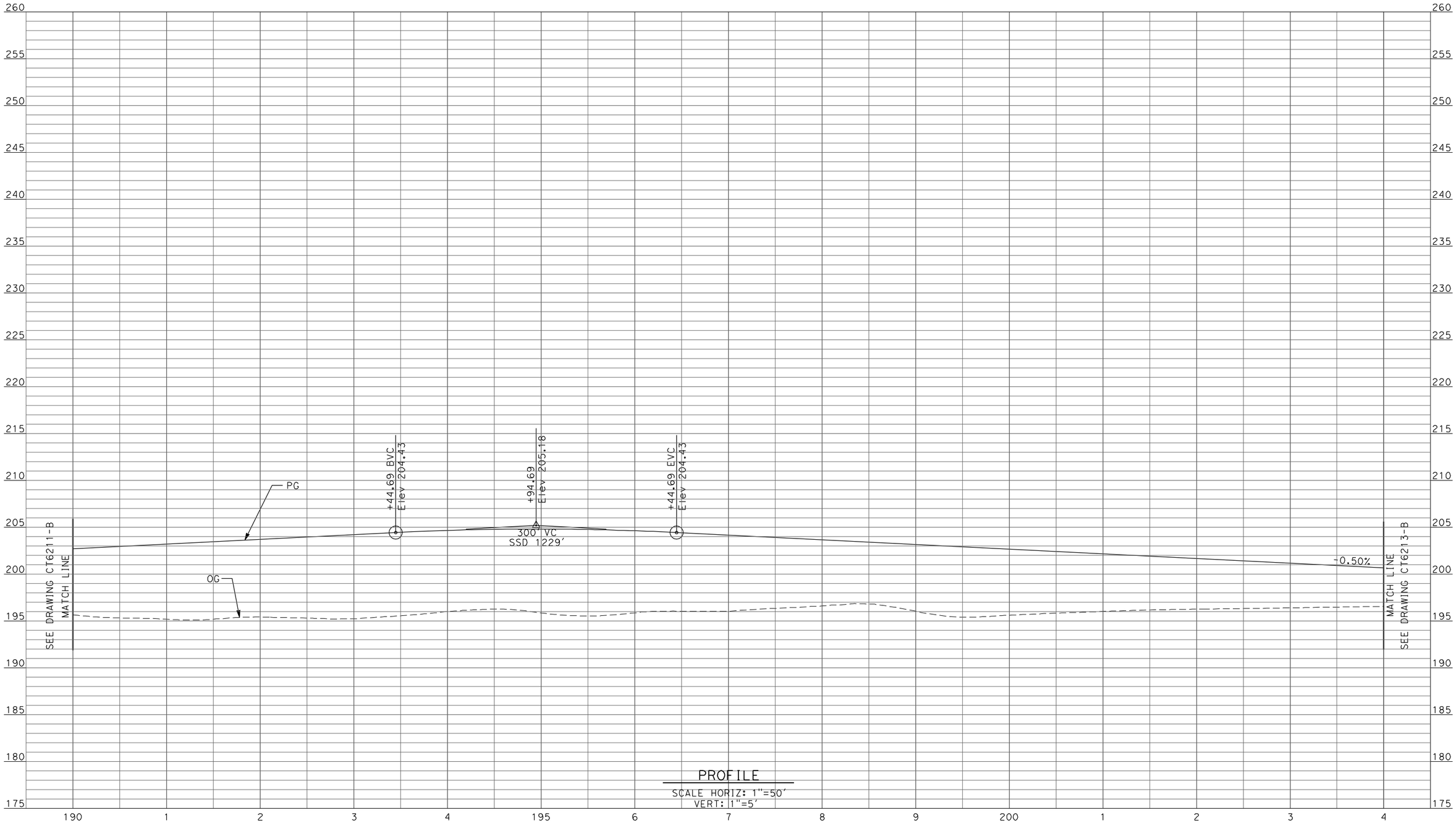
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 25
PROFILE
SHEET 2 OF 13

CONTRACT NO. HSR06-007
DRAWING NO. CT6211-B
SCALE AS SHOWN
SHEET NO. ### OF ###



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

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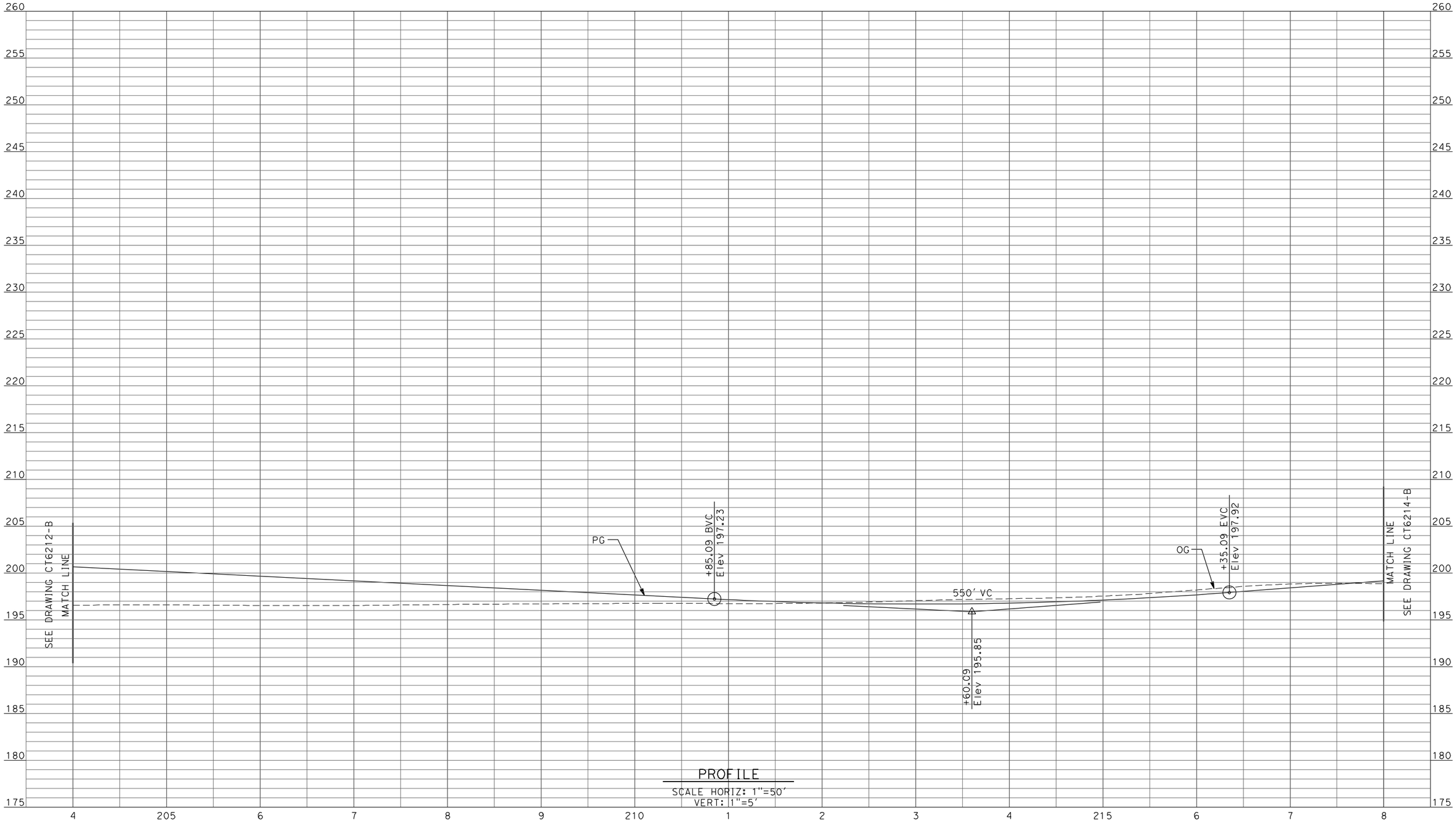
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 25
PROFILE
SHEET 3 OF 13

CONTRACT NO. HSR06-007
DRAWING NO. CT6212-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ReyesC1



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

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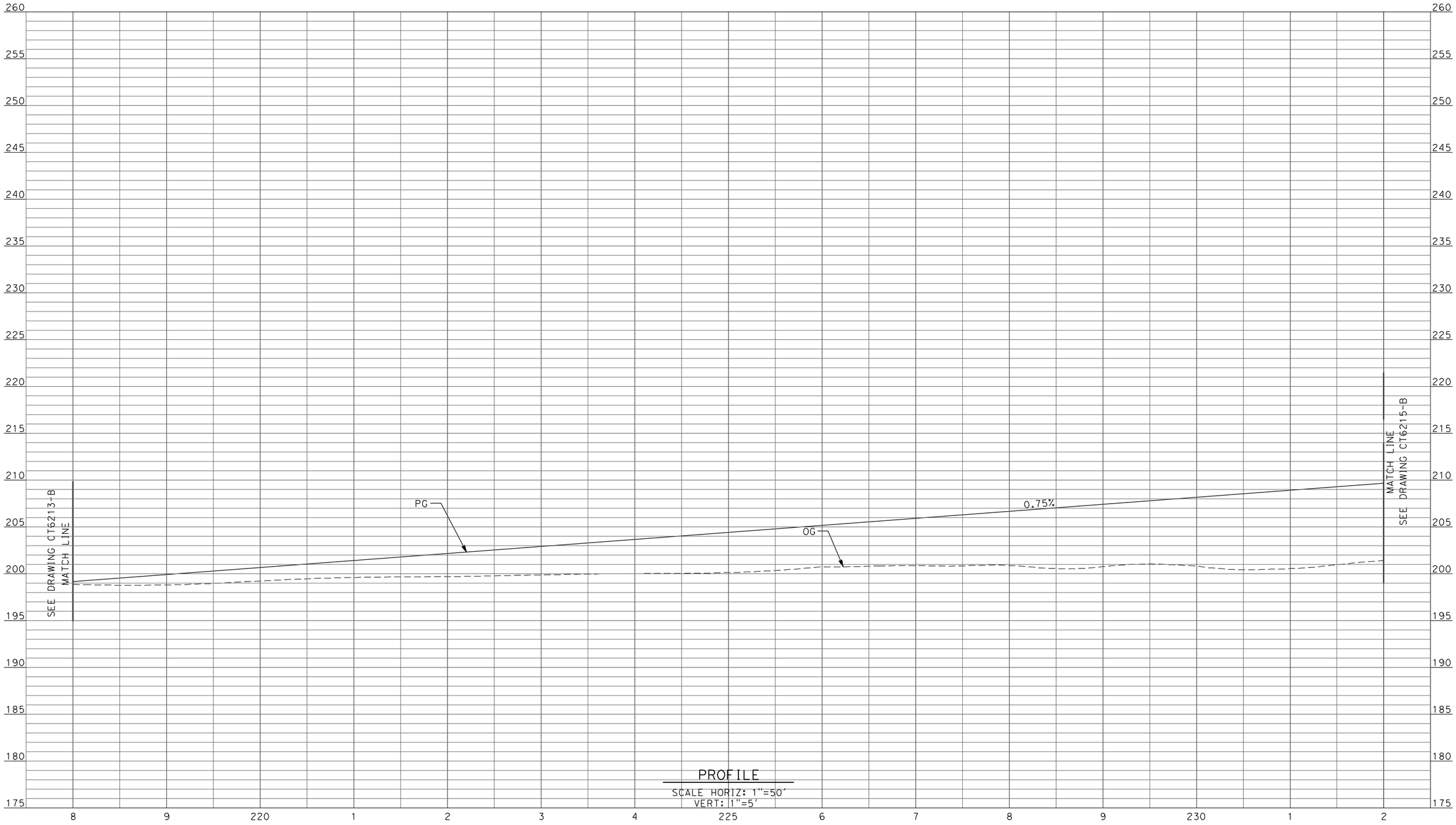
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 25
PROFILE
SHEET 4 OF 13

CONTRACT NO. HSR06-007
DRAWING NO. CT6213-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

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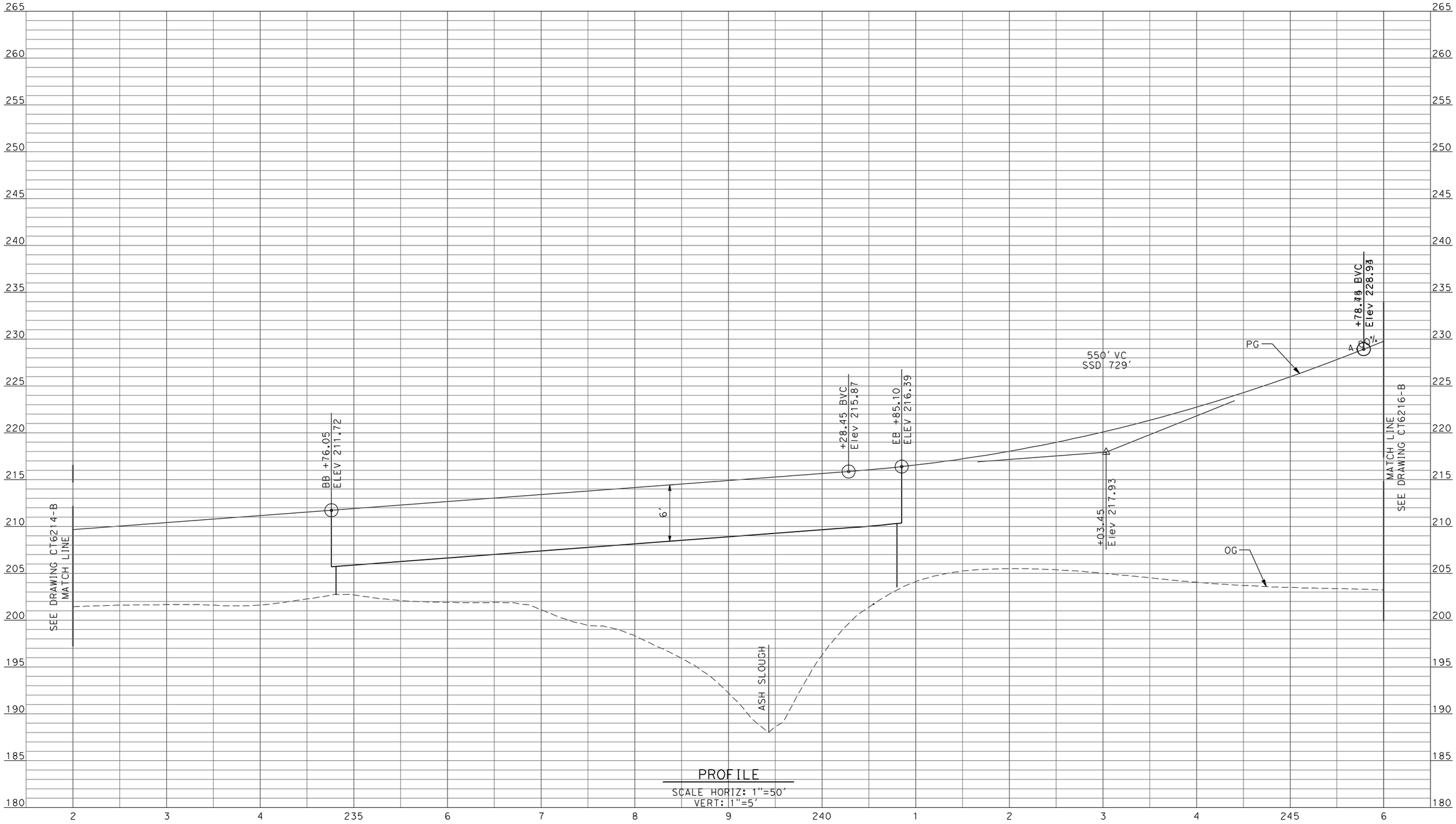
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 25
PROFILE
SHEET 5 OF 13

CONTRACT NO. HSR06-007
DRAWING NO. CT6214-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ReyesC1



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 06/30/2011

RECORD SET
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Sacramento, CA 95811

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

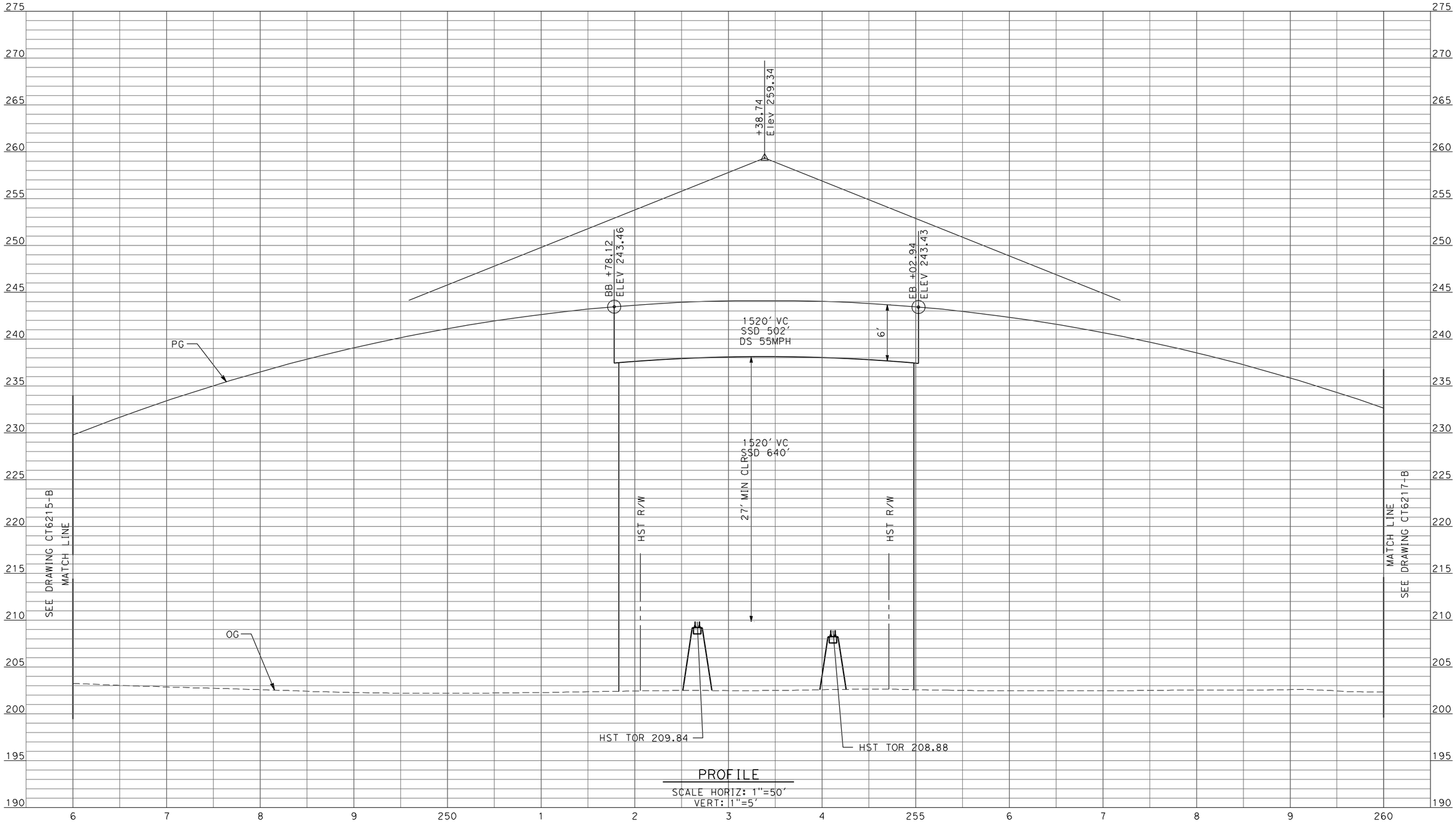
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 25
PROFILE
SHEET 6 OF 13

CONTRACT NO. HSR06-007
DRAWING NO. CT6215-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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1/5/2012 7:09:06 AM
ReyesCl



PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

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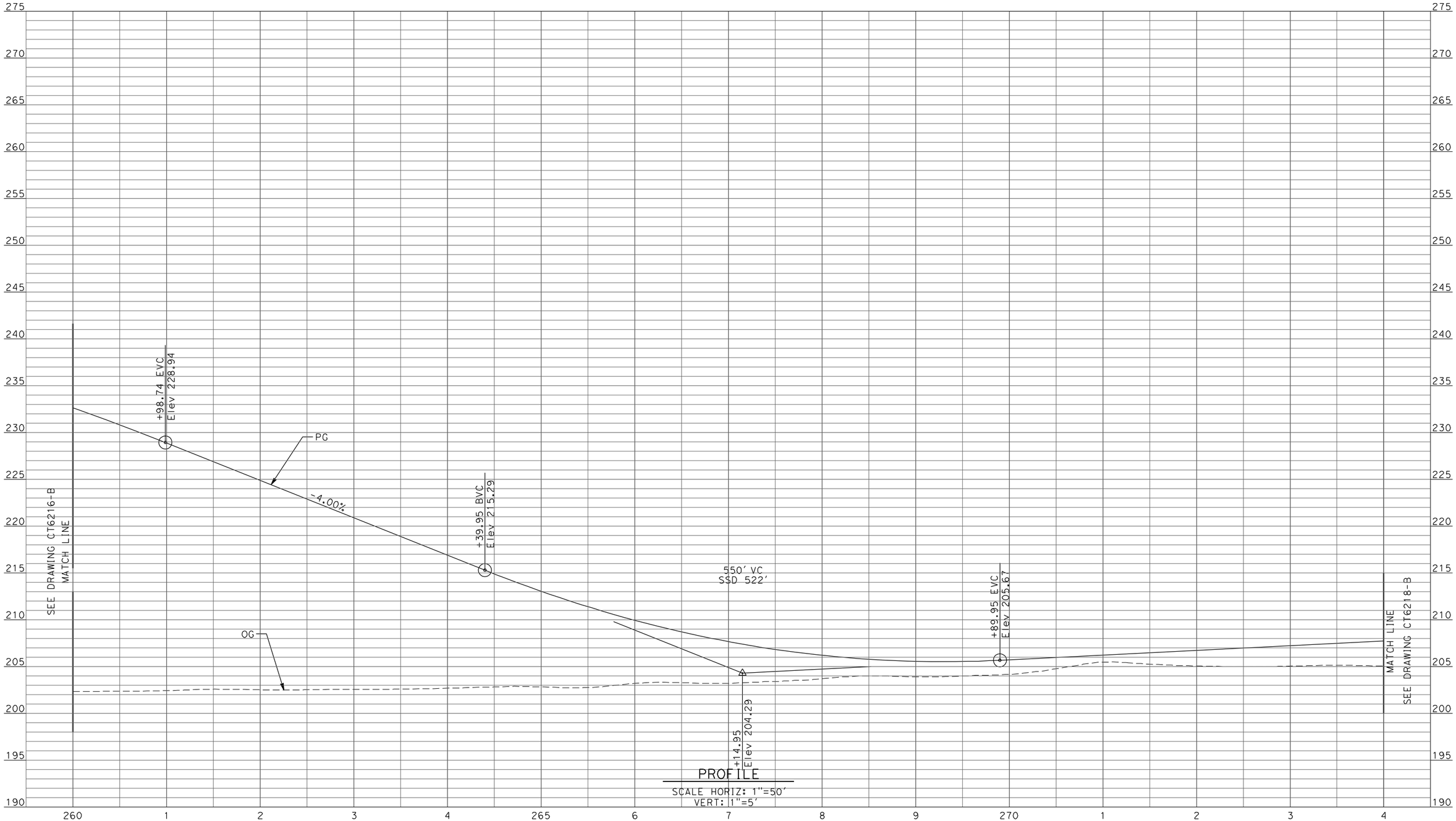
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 25
PROFILE
SHEET 7 OF 13

CONTRACT NO. HSR06-007
DRAWING NO. CT6216-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

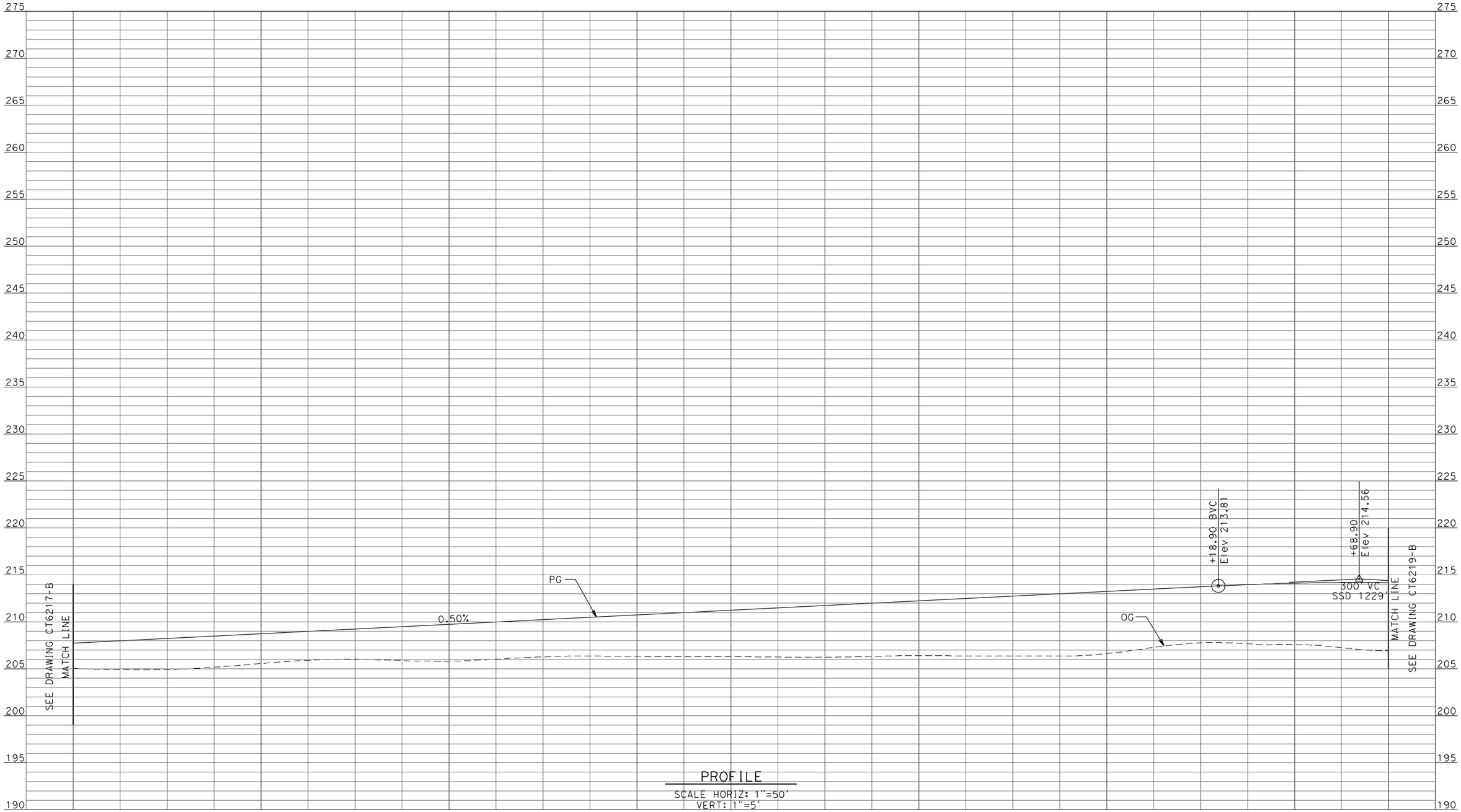
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 25
PROFILE
SHEET 8 OF 13

CONTRACT NO. HSR06-007
DRAWING NO. CT6217-B
SCALE AS SHOWN
SHEET NO. ### OF ###



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

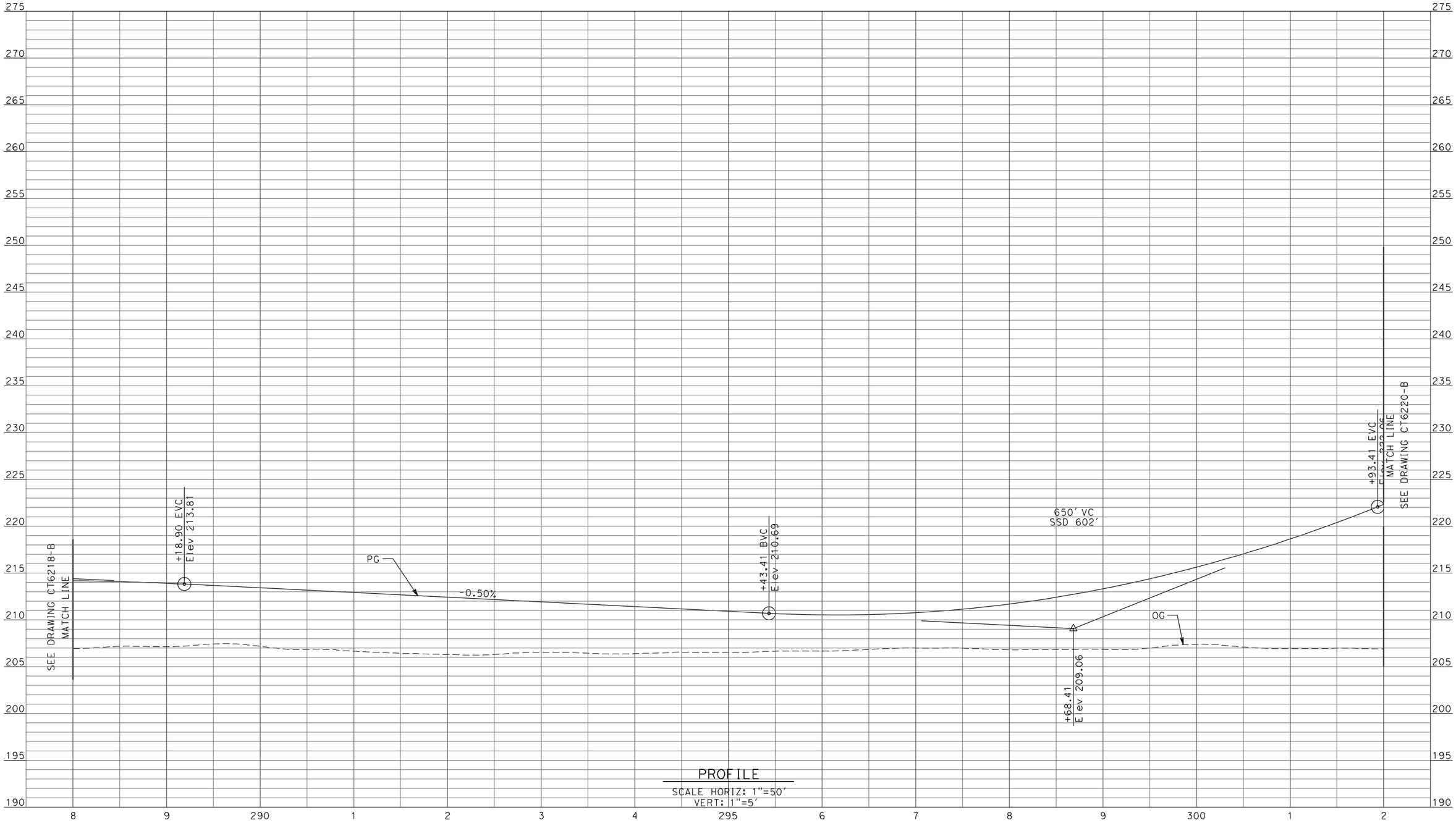
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 25
PROFILE
SHEET 9 OF 13

CONTRACT NO. HSR06-007
DRAWING NO. CT6218-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ReyesC1

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1/5/2012 7:09:21 AM
ReyesCl



PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

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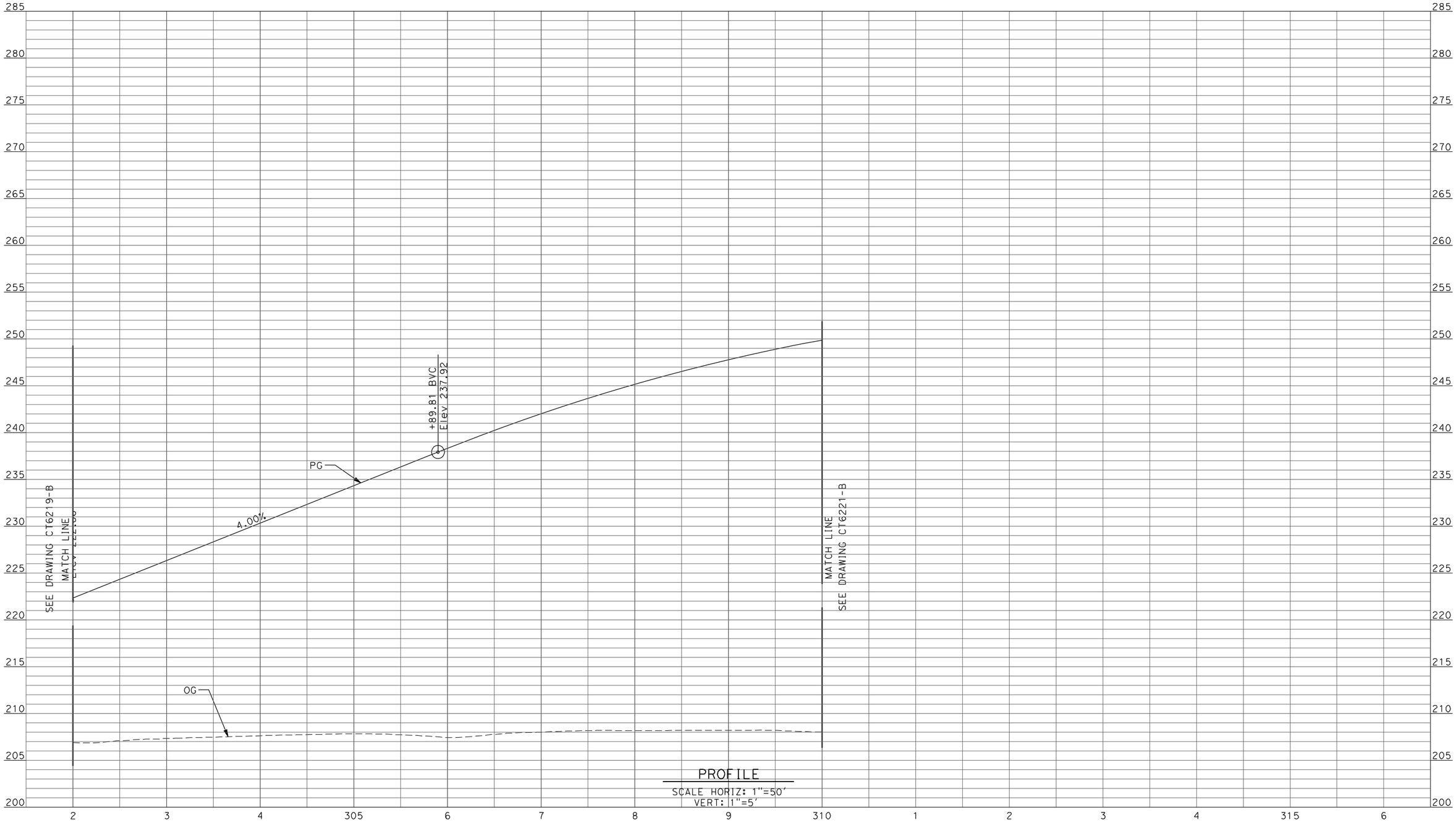
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 25
PROFILE
SHEET 10 OF 13

CONTRACT NO. HSR06-007
DRAWING NO. CT6219-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ReyesCl



PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
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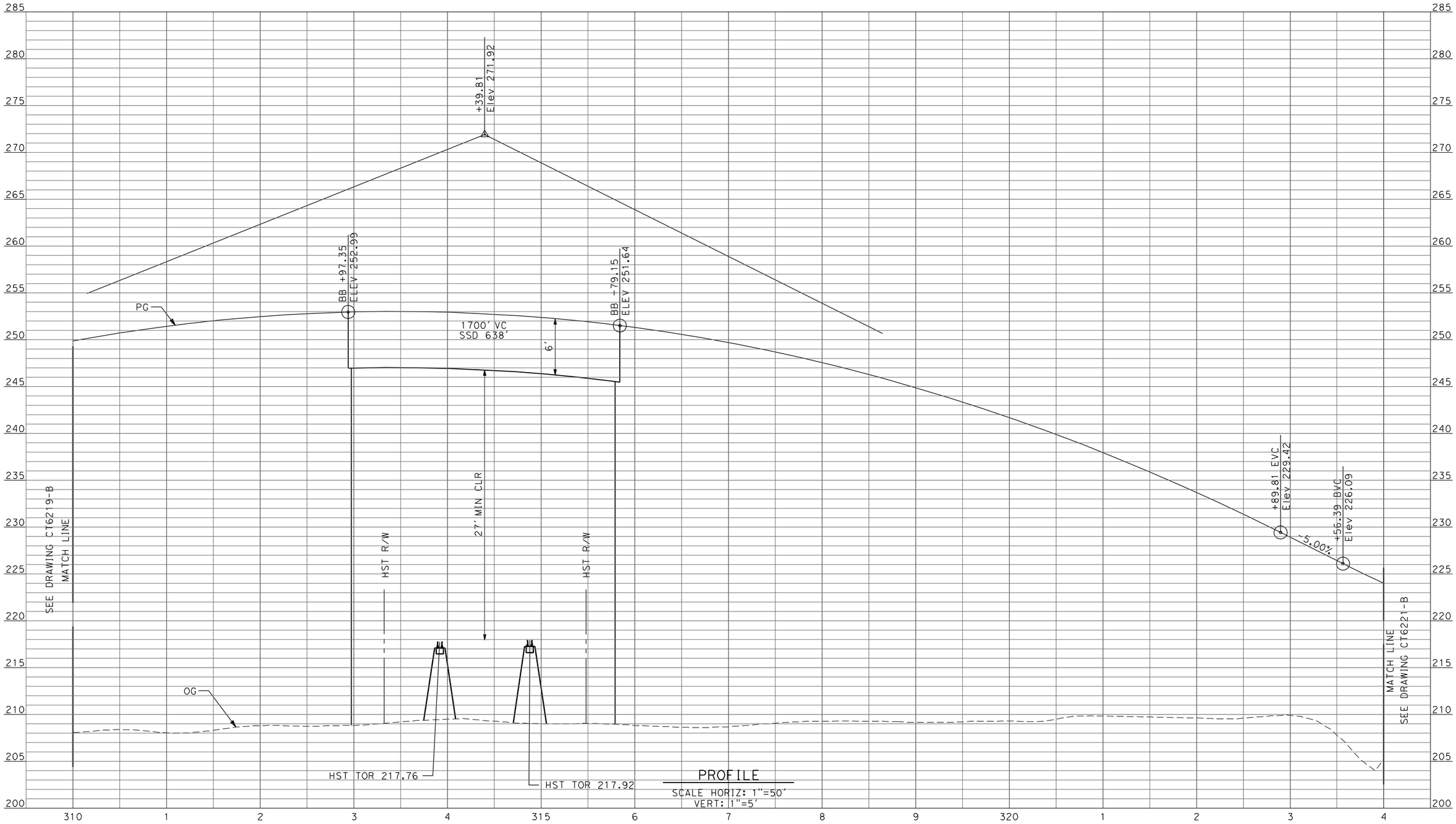
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 25
PROFILE
SHEET 11 OF 13

CONTRACT NO. HSR06-007
DRAWING NO. CT6220-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

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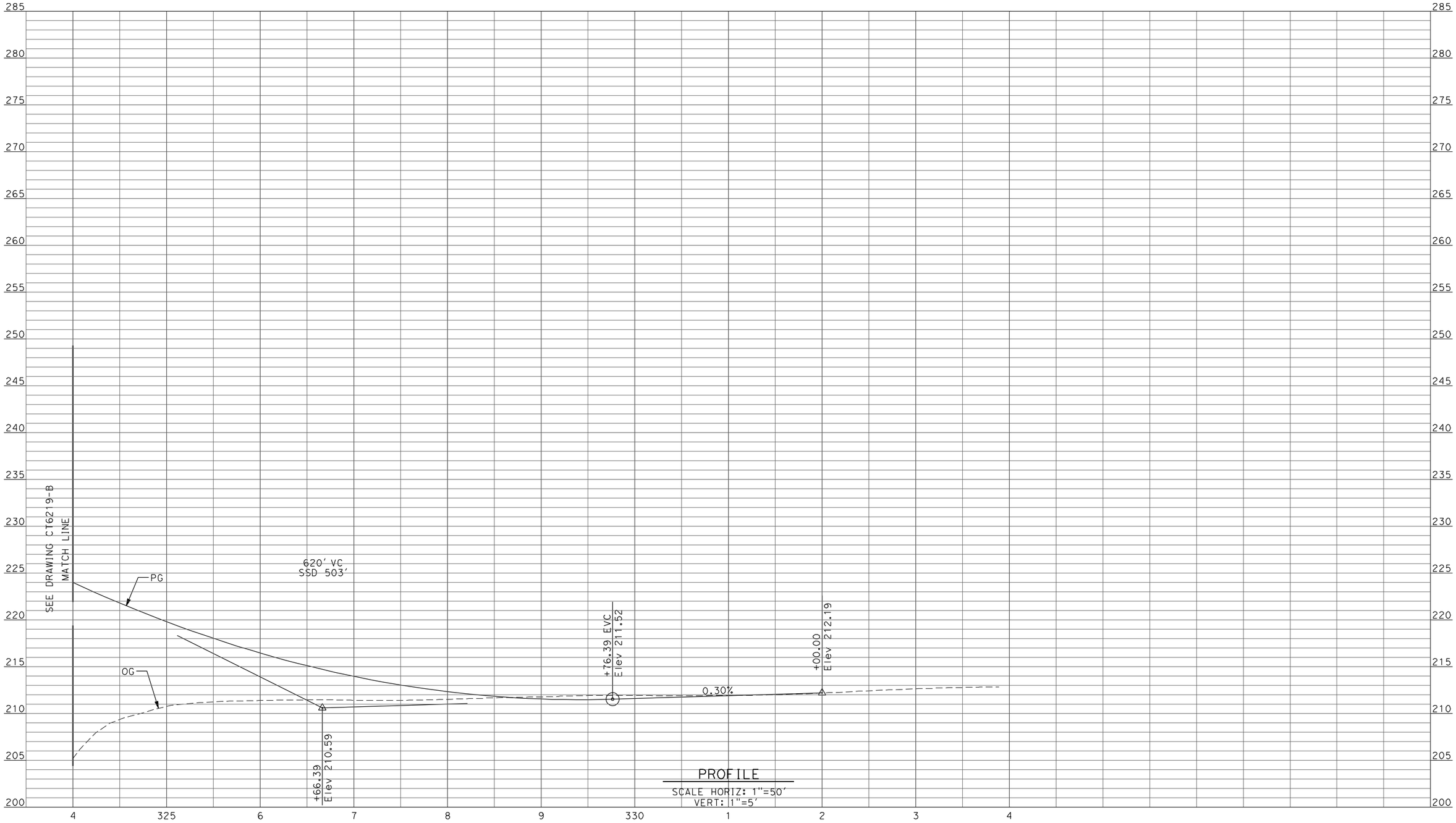
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 25
PROFILE
SHEET 12 OF 13

CONTRACT NO. HSR06-007
DRAWING NO. CT6221-B
SCALE AS SHOWN
SHEET NO. ### OF ###



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

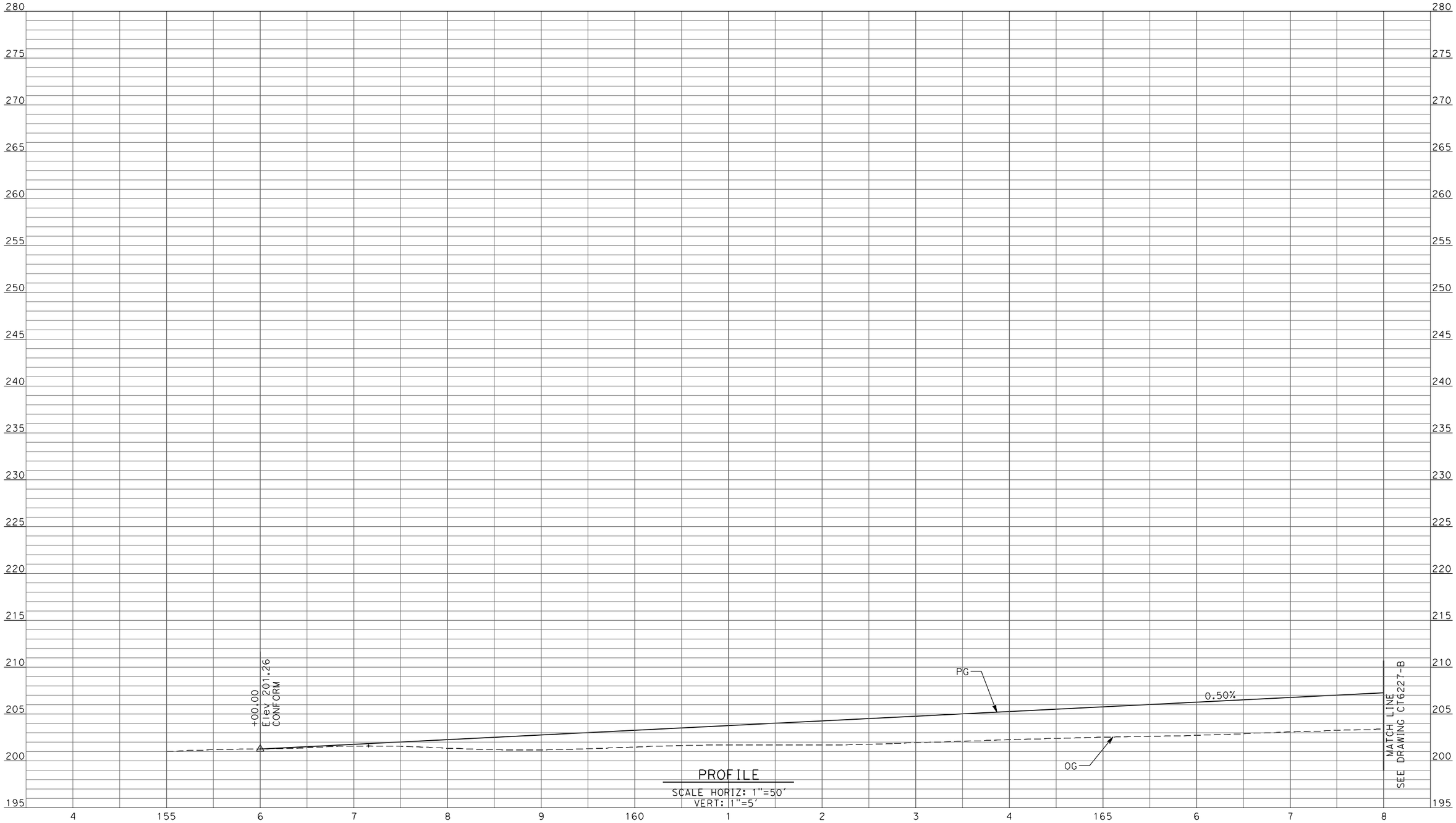
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 25
PROFILE
SHEET 13 OF 13

CONTRACT NO. HSR06-007
DRAWING NO. CT6222-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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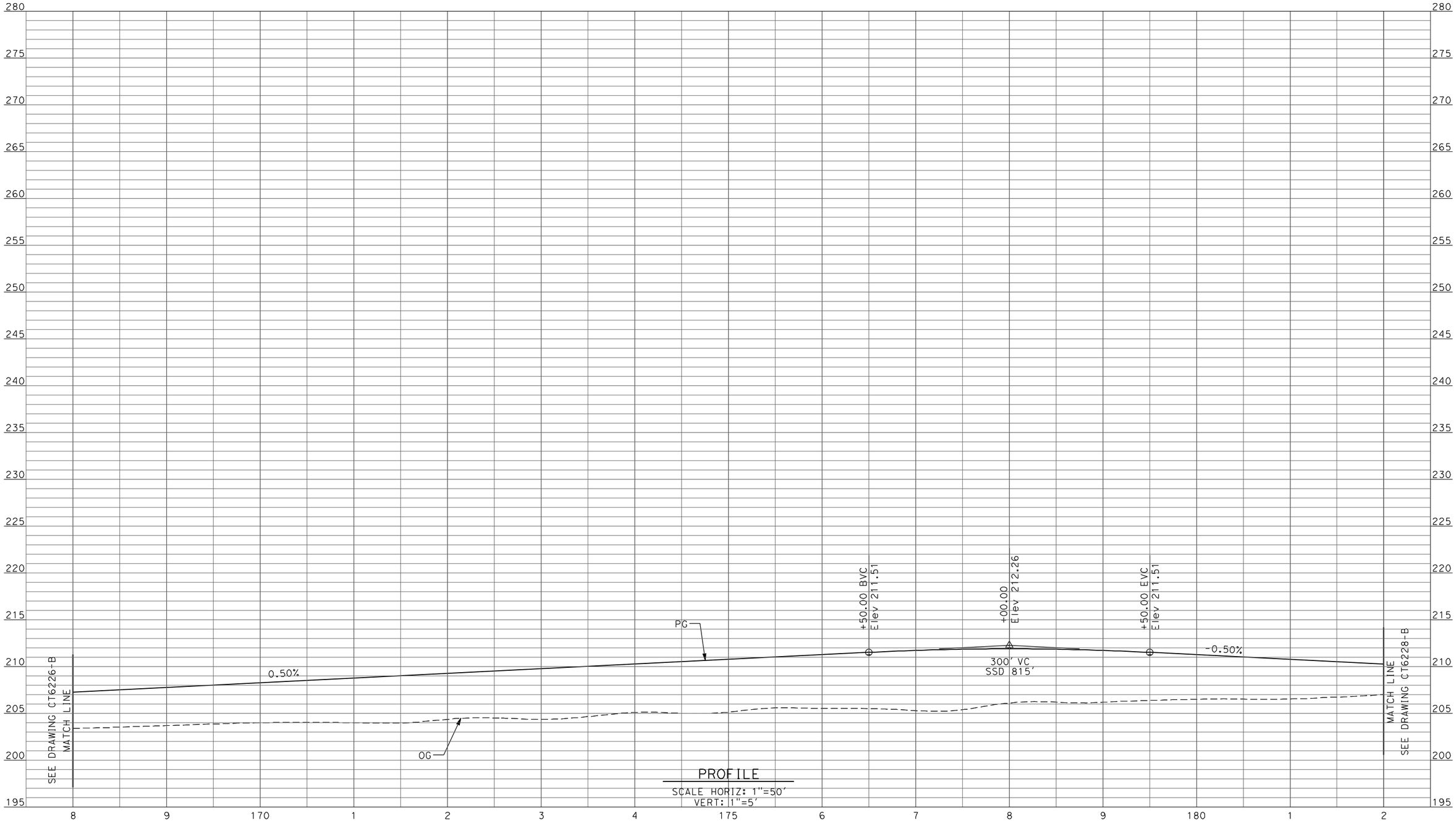
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION -AVENUE 26 ALT 1
PROFILE
SHEET 1 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT6226-B
SCALE AS SHOWN
SHEET NO. ### OF ###



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

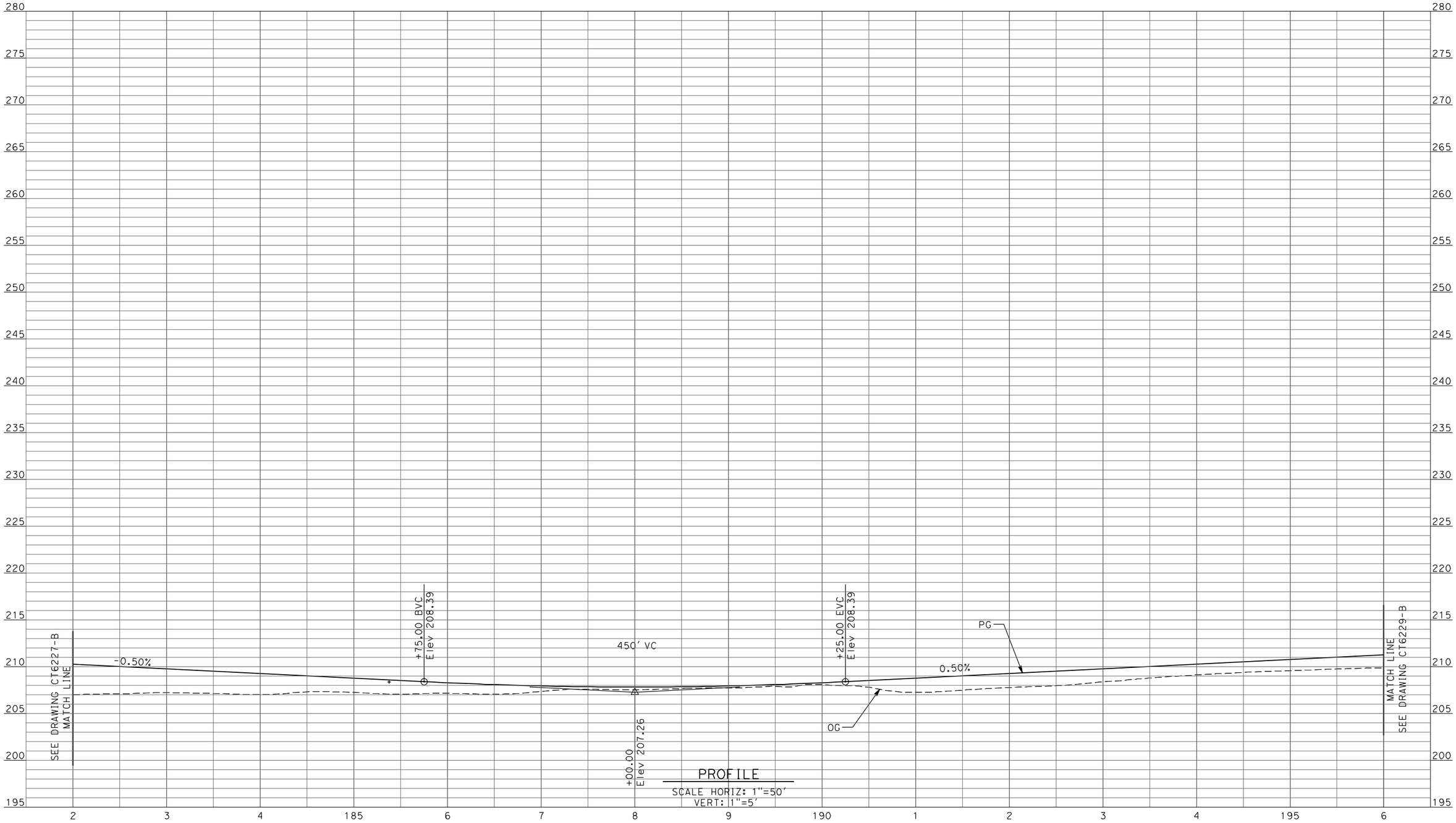
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 26 ALT 1
PROFILE
SHEET 2 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT6227-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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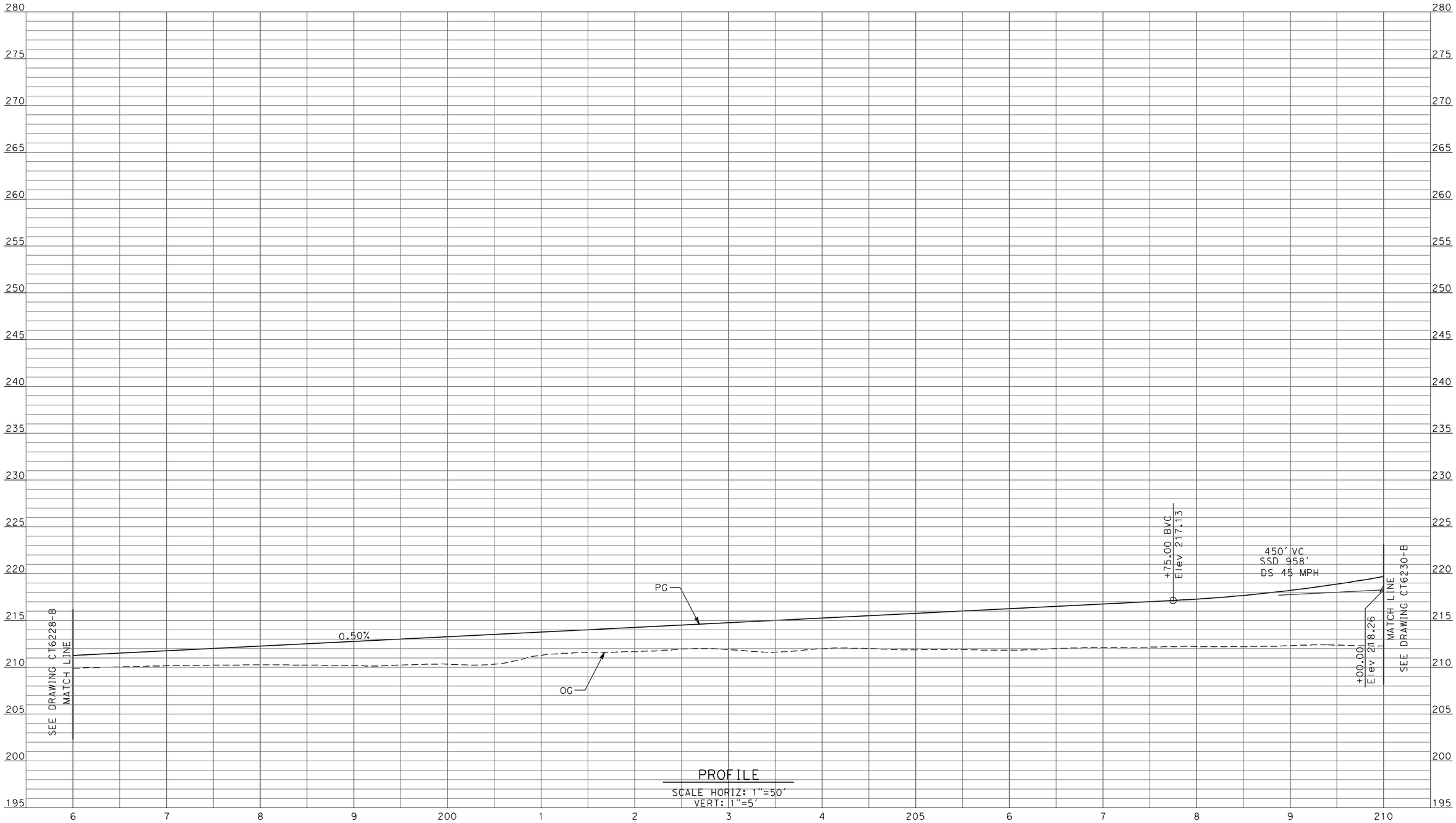
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 26 ALT 1
PROFILE
SHEET 3 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT6228-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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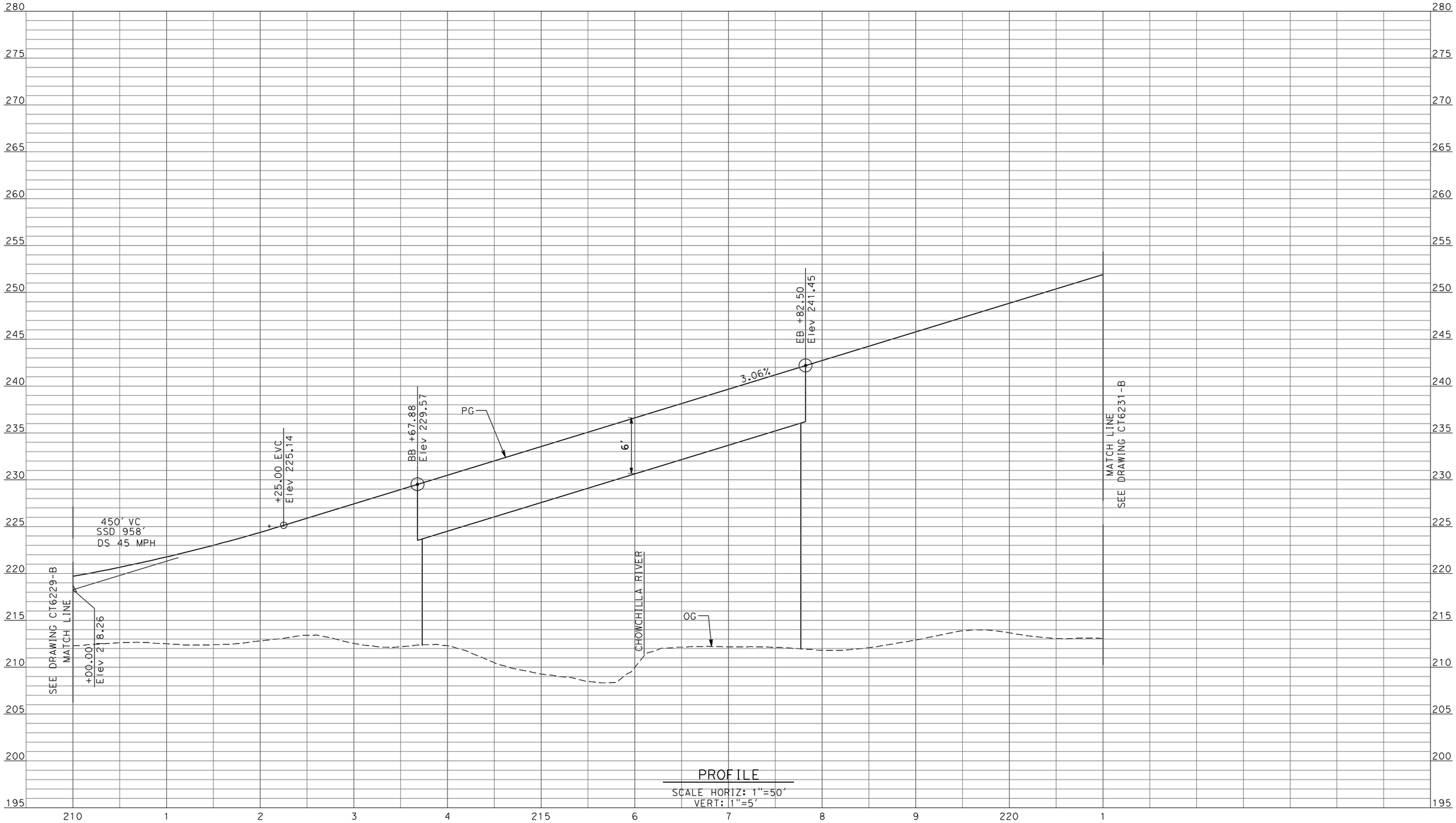
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 26 ALT 1
PROFILE
SHEET 4 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT6229-B
SCALE AS SHOWN
SHEET NO. ### OF ###



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

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CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

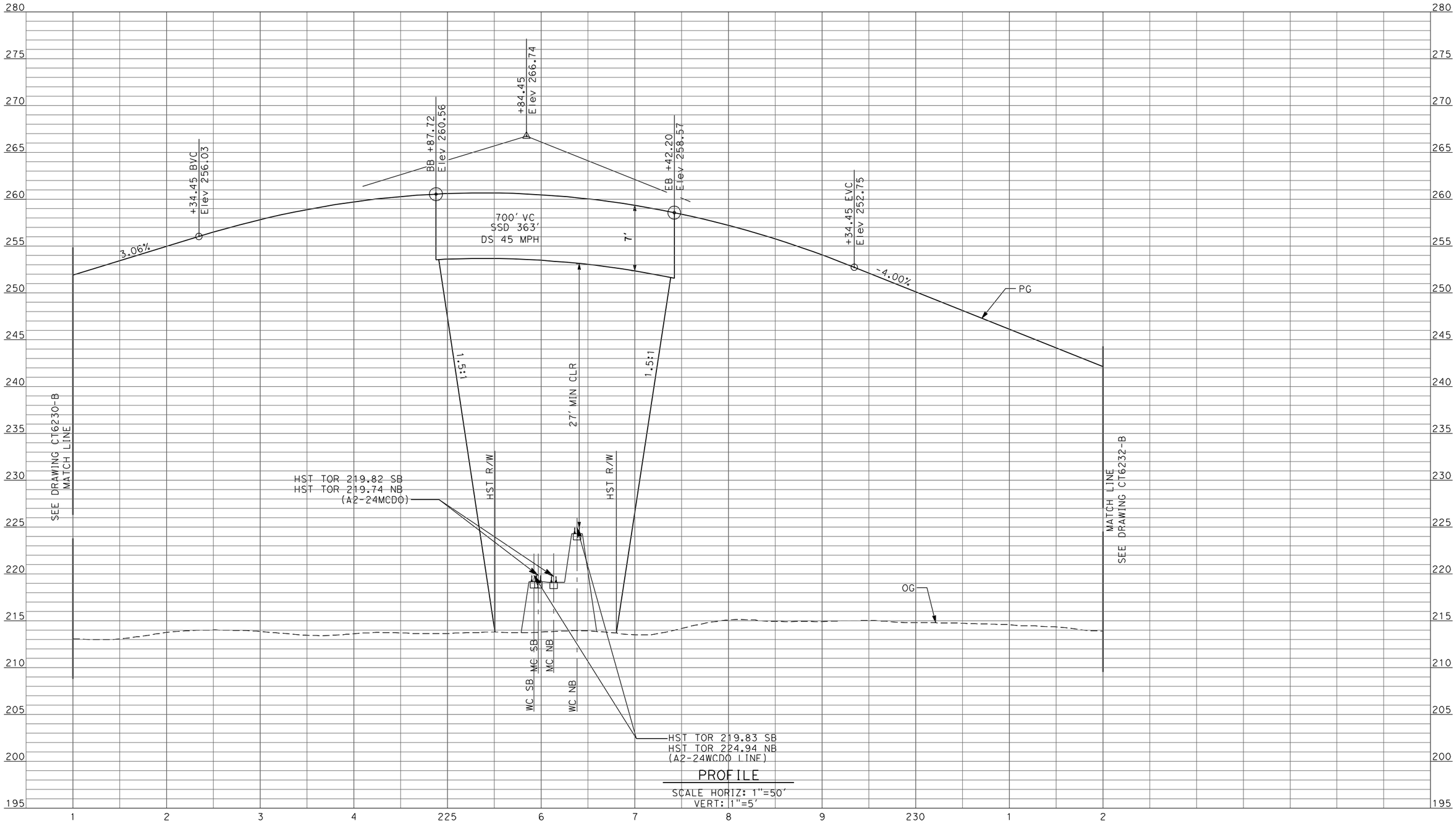
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 26 ALT 1
PROFILE
SHEET 5 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT6230-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

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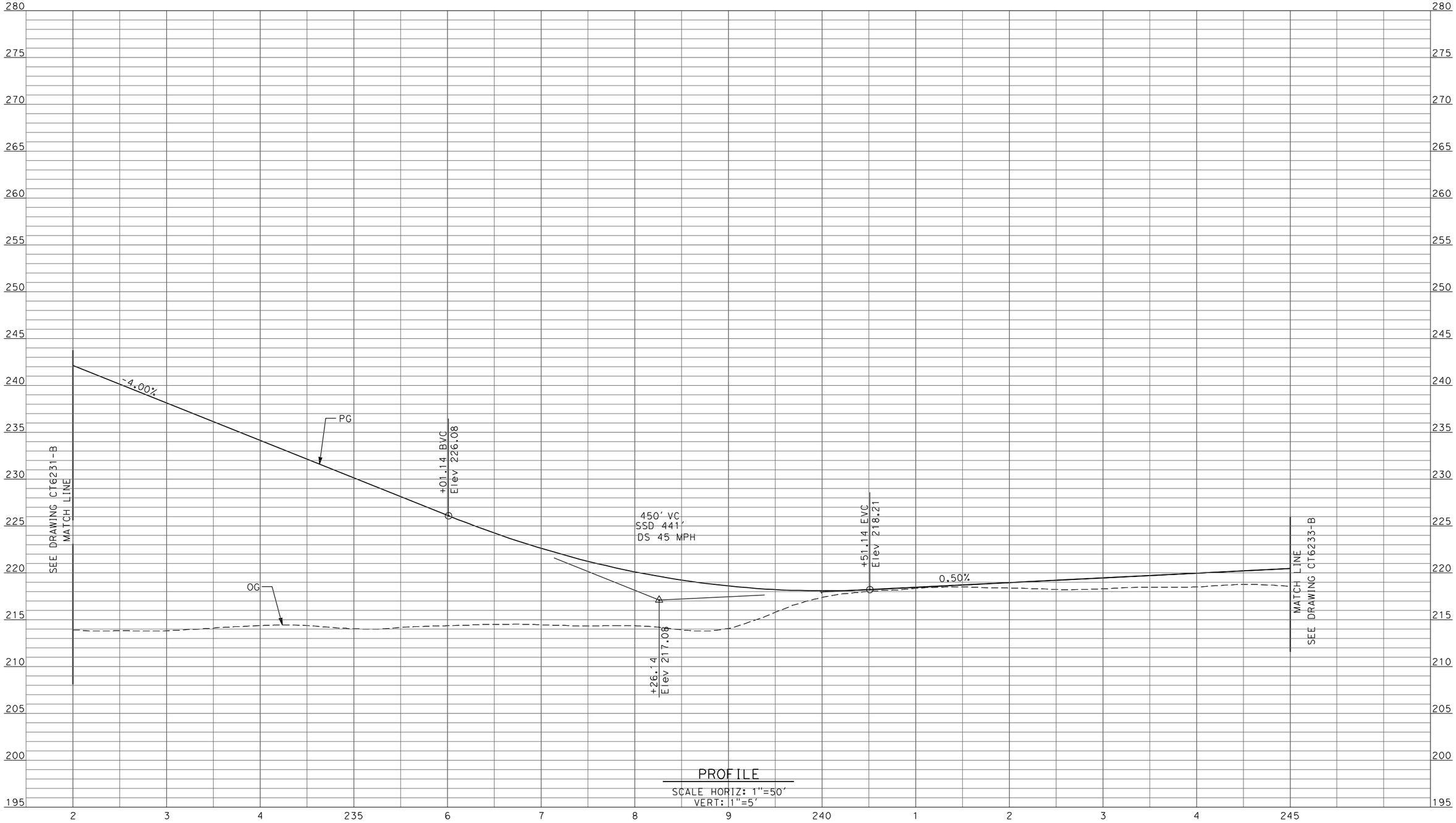
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 26 ALT 1
PROFILE
SHEET 6 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT6231-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

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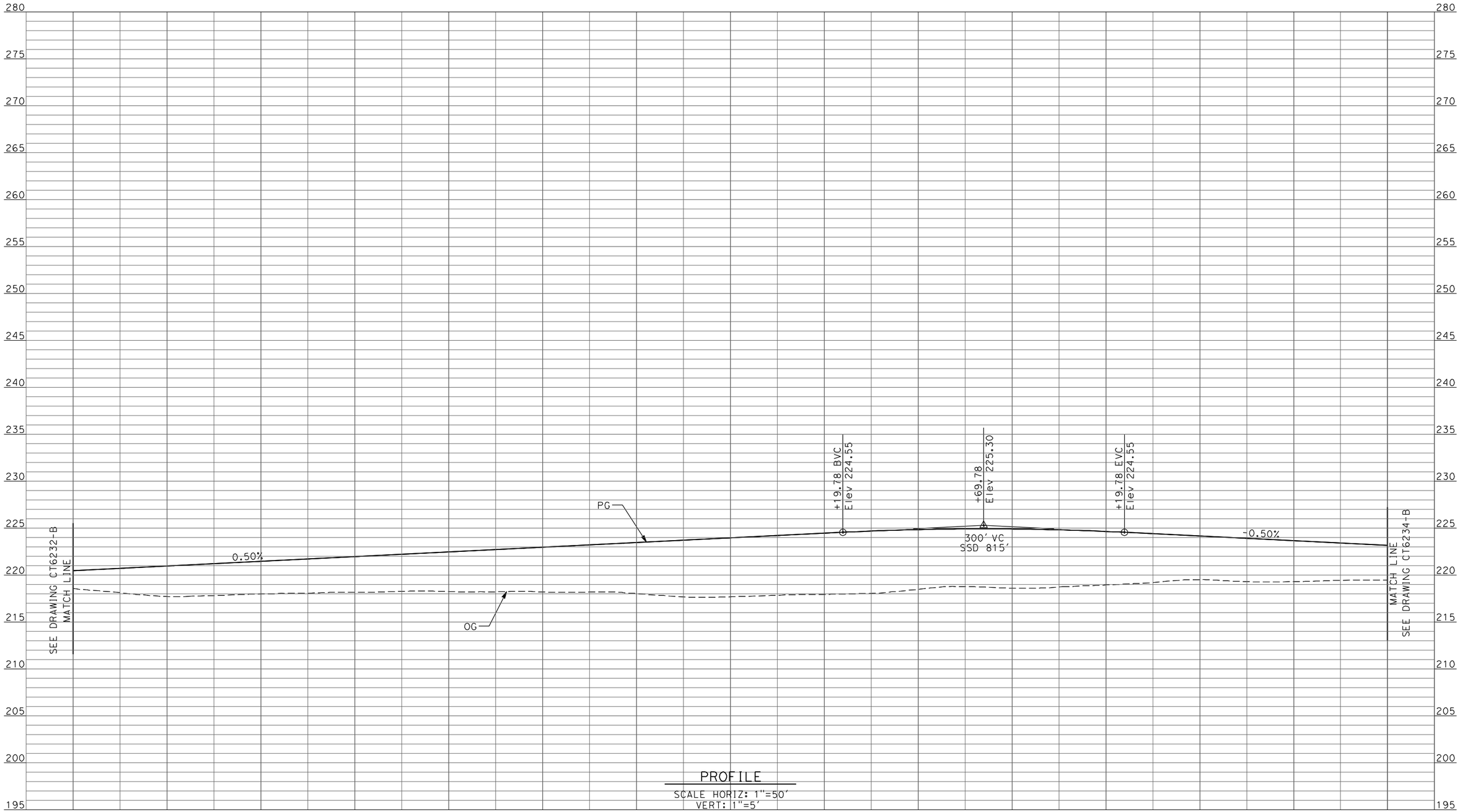
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 26 ALT 1
PROFILE
SHEET 7 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT6232-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 26 ALT 1
PROFILE
SHEET 8 OF 10

CONTRACT NO.: HSR06-007
DRAWING NO.: CT6233-B
SCALE: AS SHOWN
SHEET NO.: ### OF ###

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

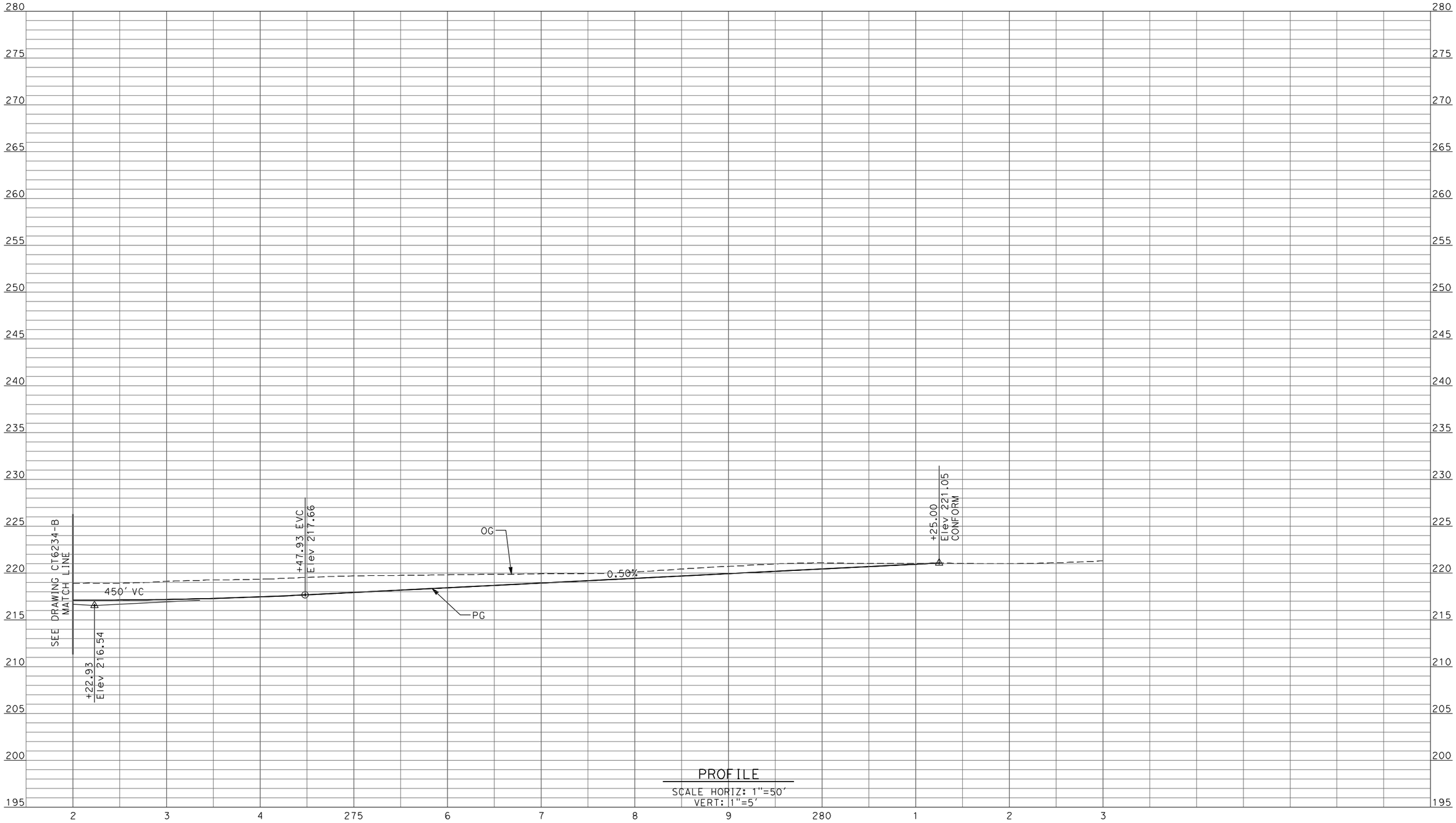
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 26 ALT 1
PROFILE
SHEET 9 OF 10

CONTRACT NO. HSR06-007
DRAWING NO. CT6234-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY	D. AYELE
DRAWN BY	C. DELOS REYES
CHECKED BY	A. SILVER
IN CHARGE	A. BOONE
DATE	04/29/2011

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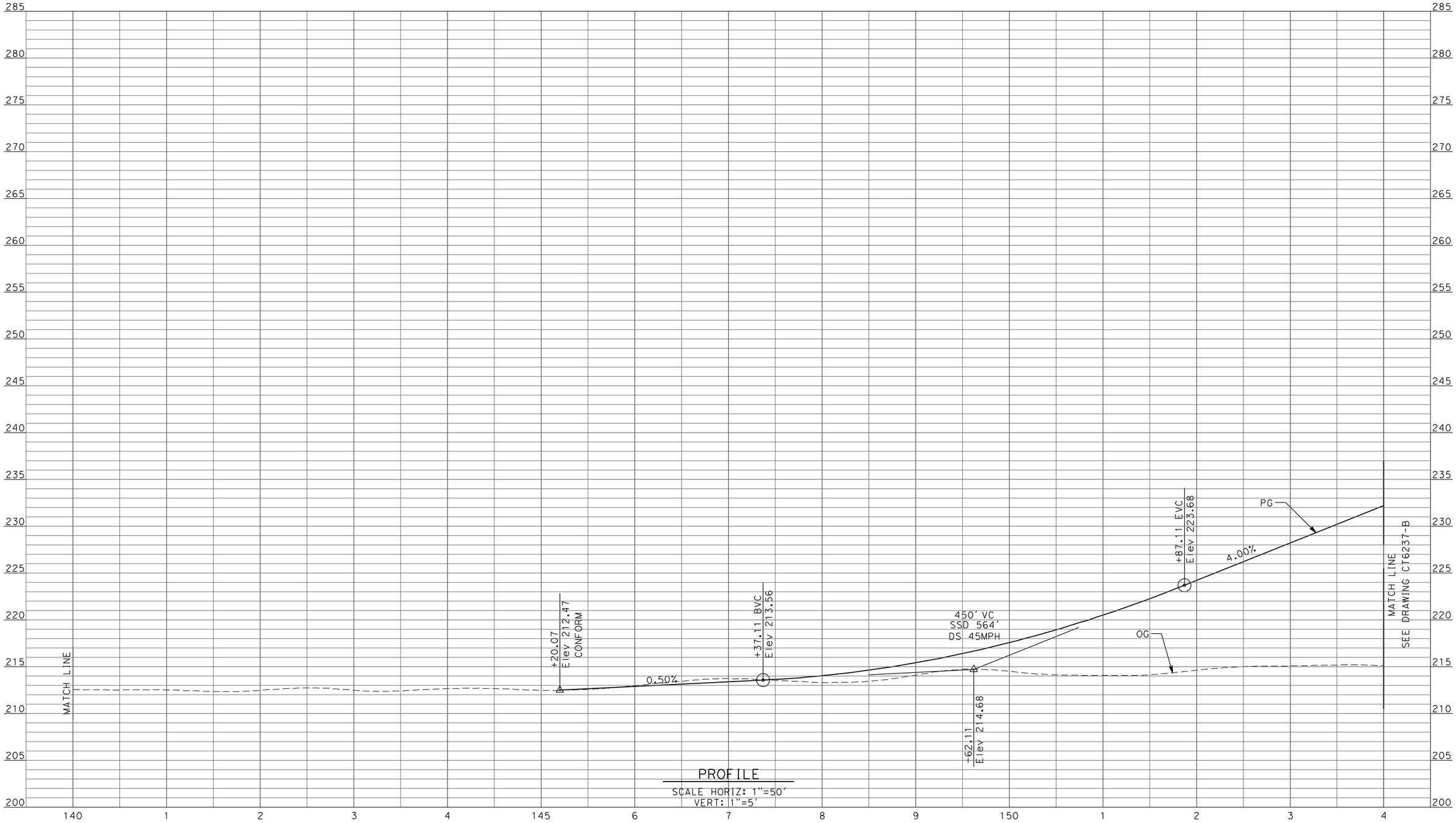
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
GRADE SEPARATION - AVENUE 26 ALT 1
PROFILE
SHEET 10 OF 10

CONTRACT NO.	HSR06-007
DRAWING NO.	CT6235-B
SCALE	AS SHOWN
SHEET NO.	### OF ###



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

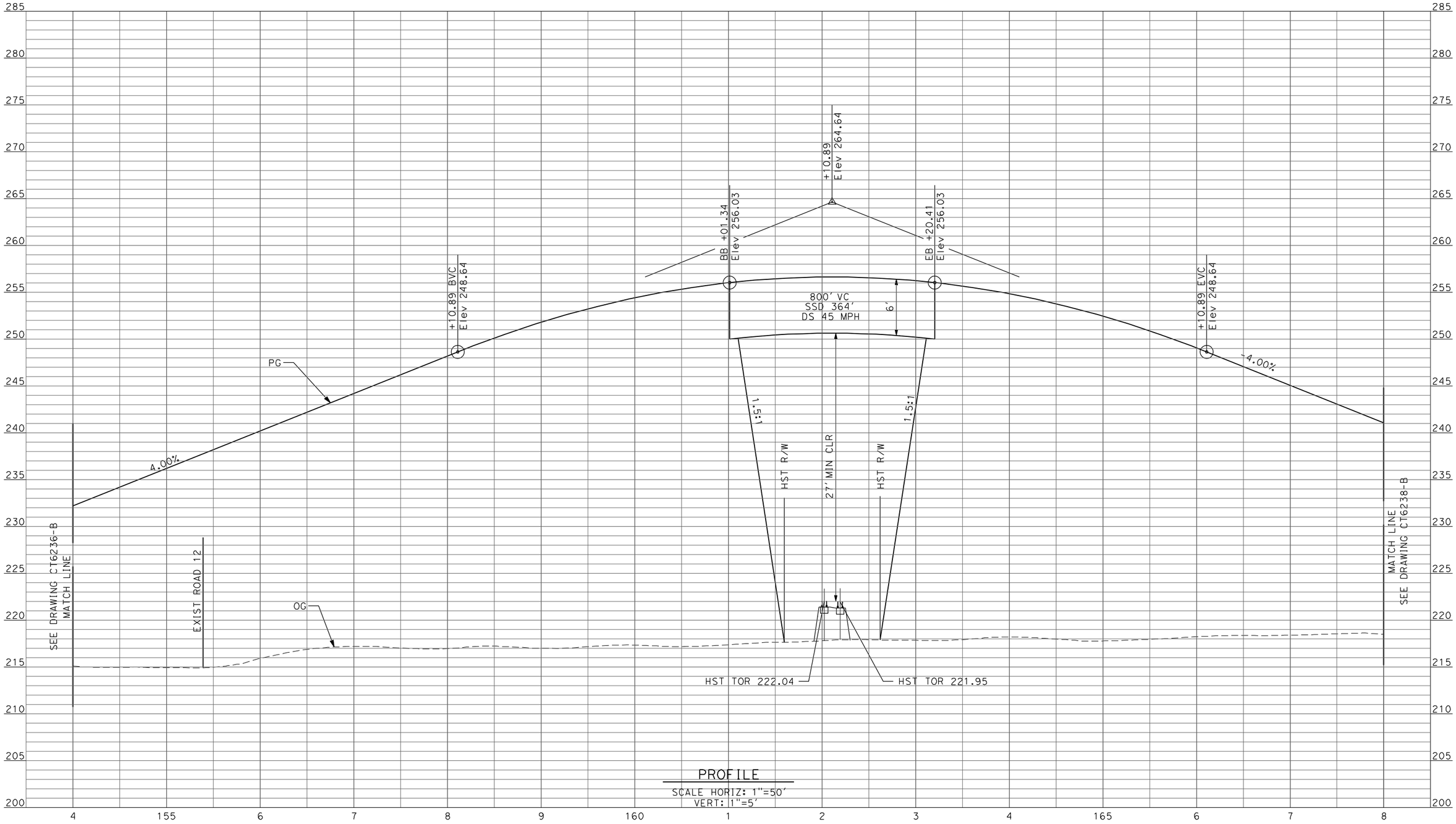
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MERCED DO - (HYBRID)
GRADE SEPARATION - CROSS ROAD
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6236-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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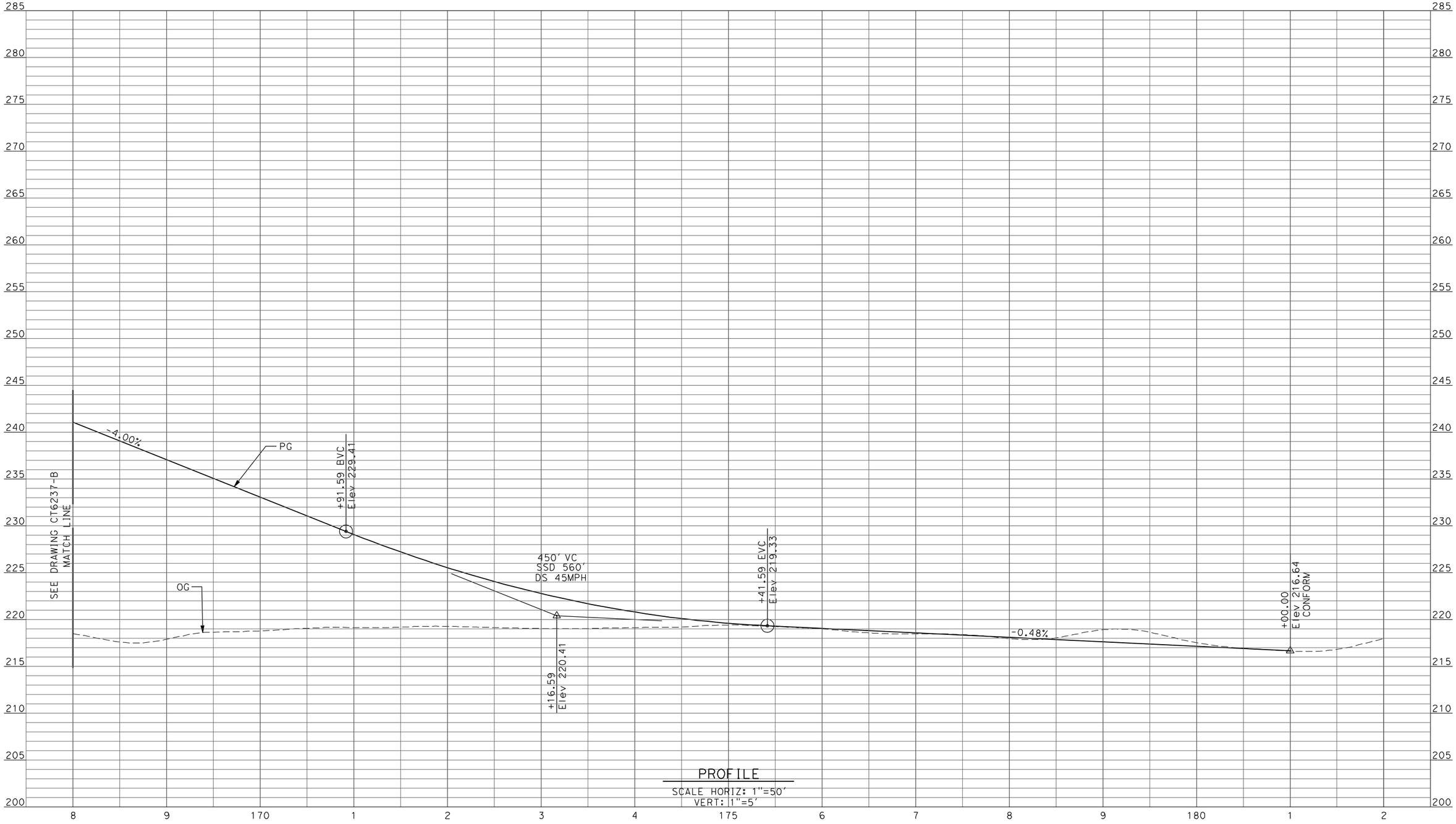
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MERCED DO - (HYBRID)
GRADE SEPARATION - CROSS ROAD
PROFILE
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6237-B
SCALE AS SHOWN
SHEET NO. ### OF ###



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
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RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

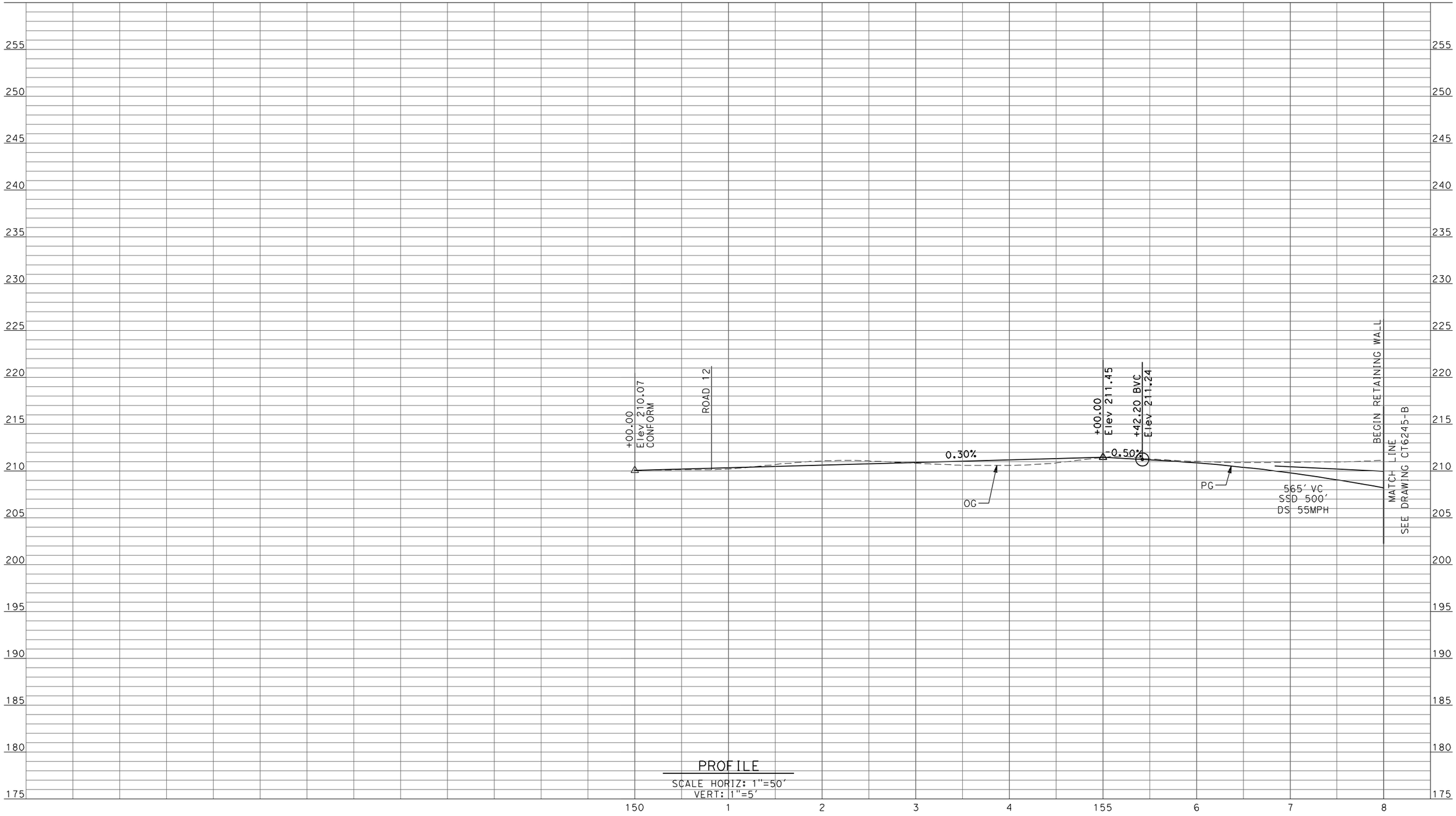
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MERCED DO - (HYBRID)
GRADE SEPARATION - CROSS ROAD
PROFILE
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6238-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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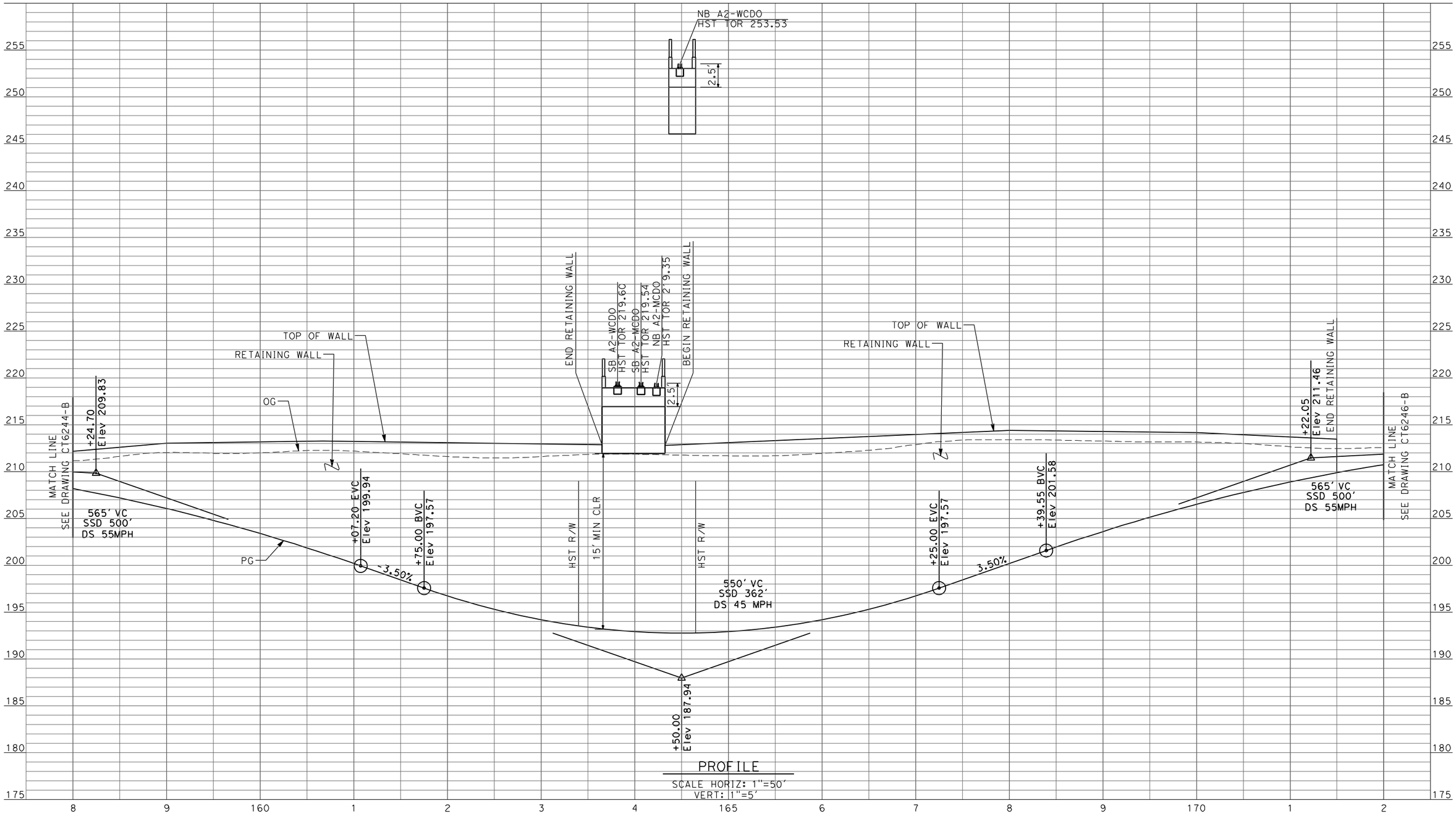
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
UNDERPASS - AVENUE 26 ALT 2
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6244-B
SCALE AS SHOWN
SHEET NO. ### OF ###



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

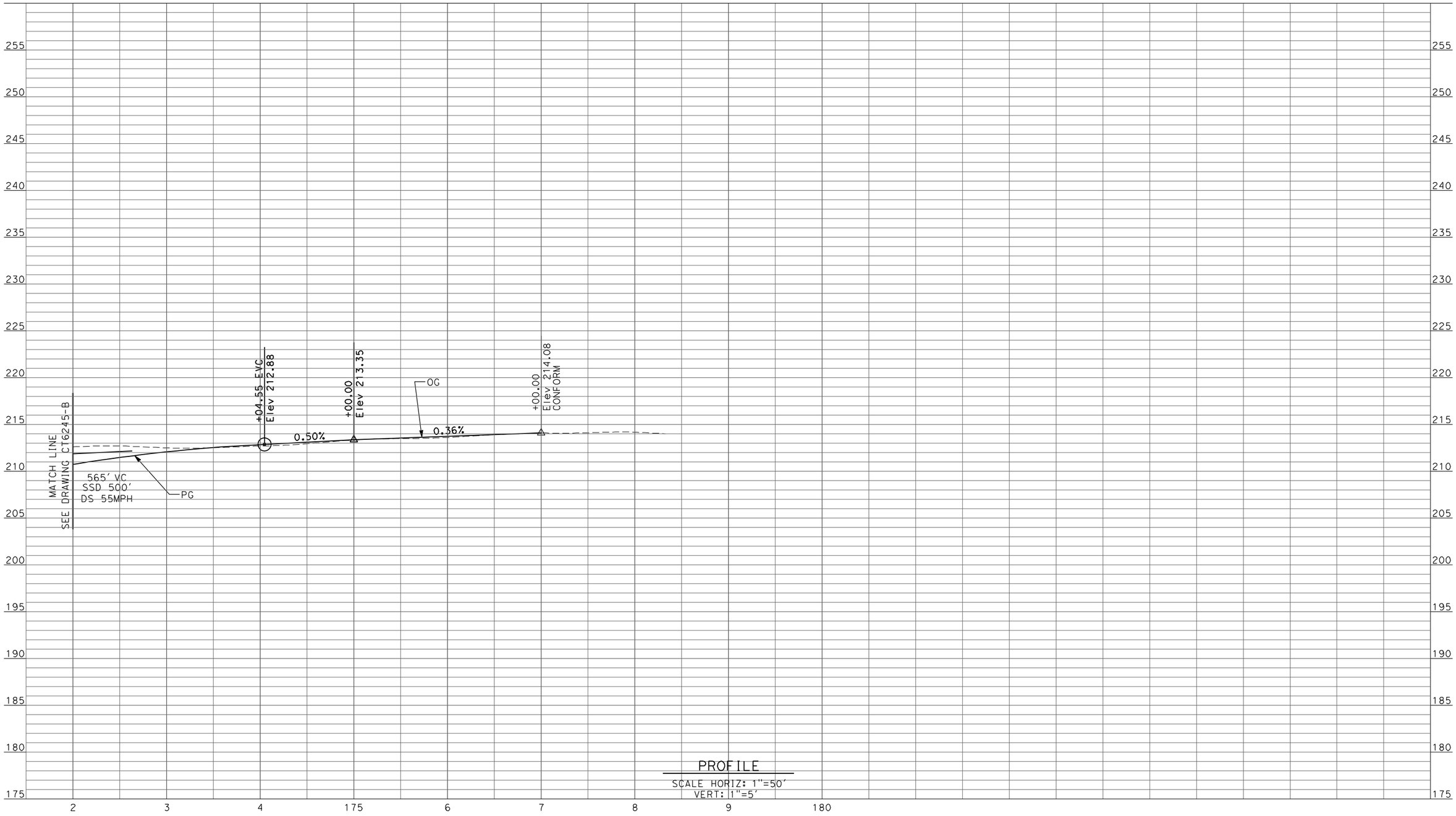
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
UNDERPASS - AVENUE 26 ALT 2
PROFILE
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6245-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ayeled



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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Sacramento, CA 95811

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

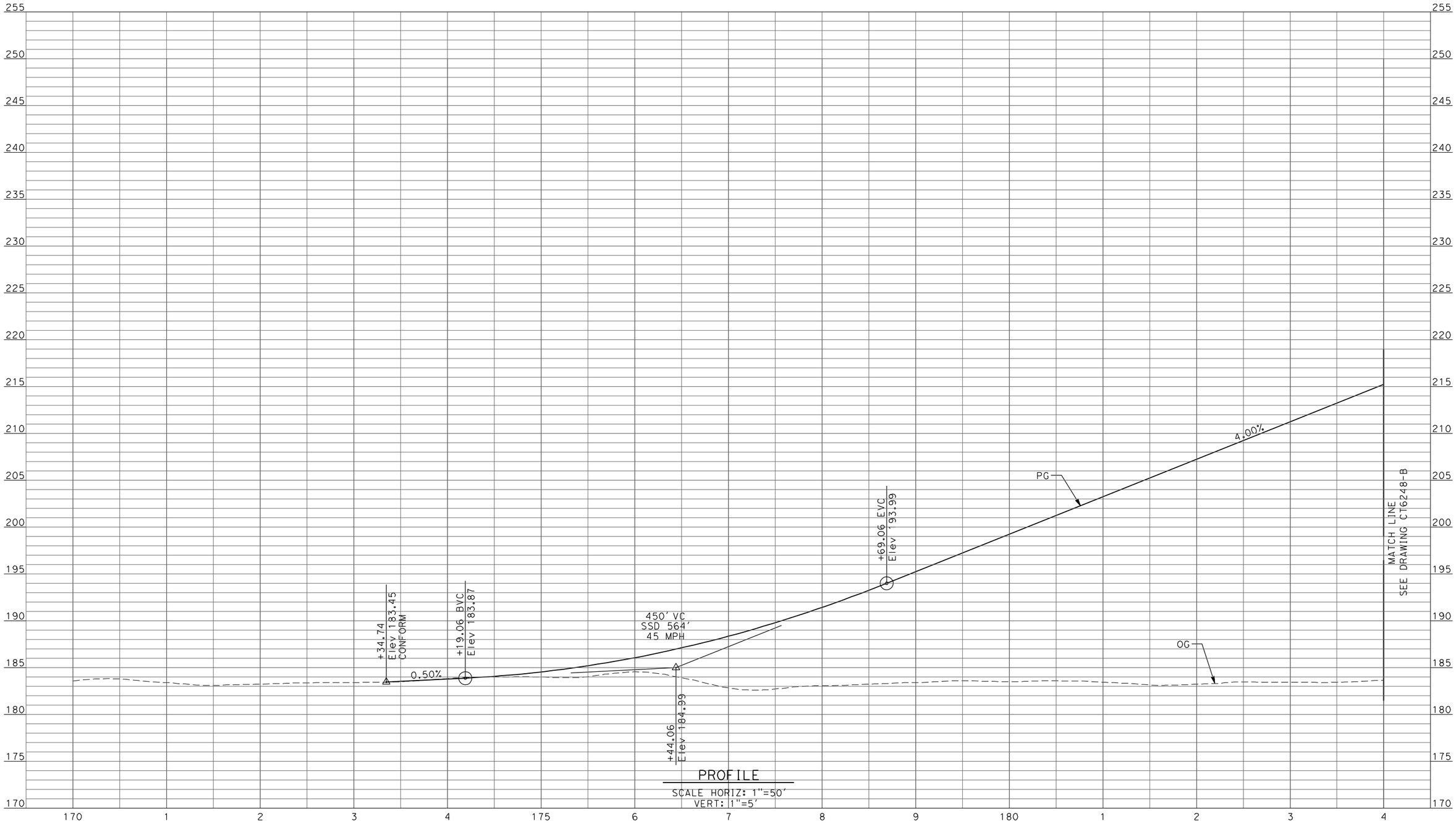
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 WYE/MERCED DO - (HYBRID)
UNDERPASS - AVENUE 26 ALT 2
PROFILE
SHEET 3 OF 3

CONTRACT NO.: HSR06-007
DRAWING NO.: CT6246-B
SCALE: AS SHOWN
SHEET NO.: ### OF ###

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oyeled



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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Technical Services, Inc.
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Sacramento, CA 95811
CH2MHILL

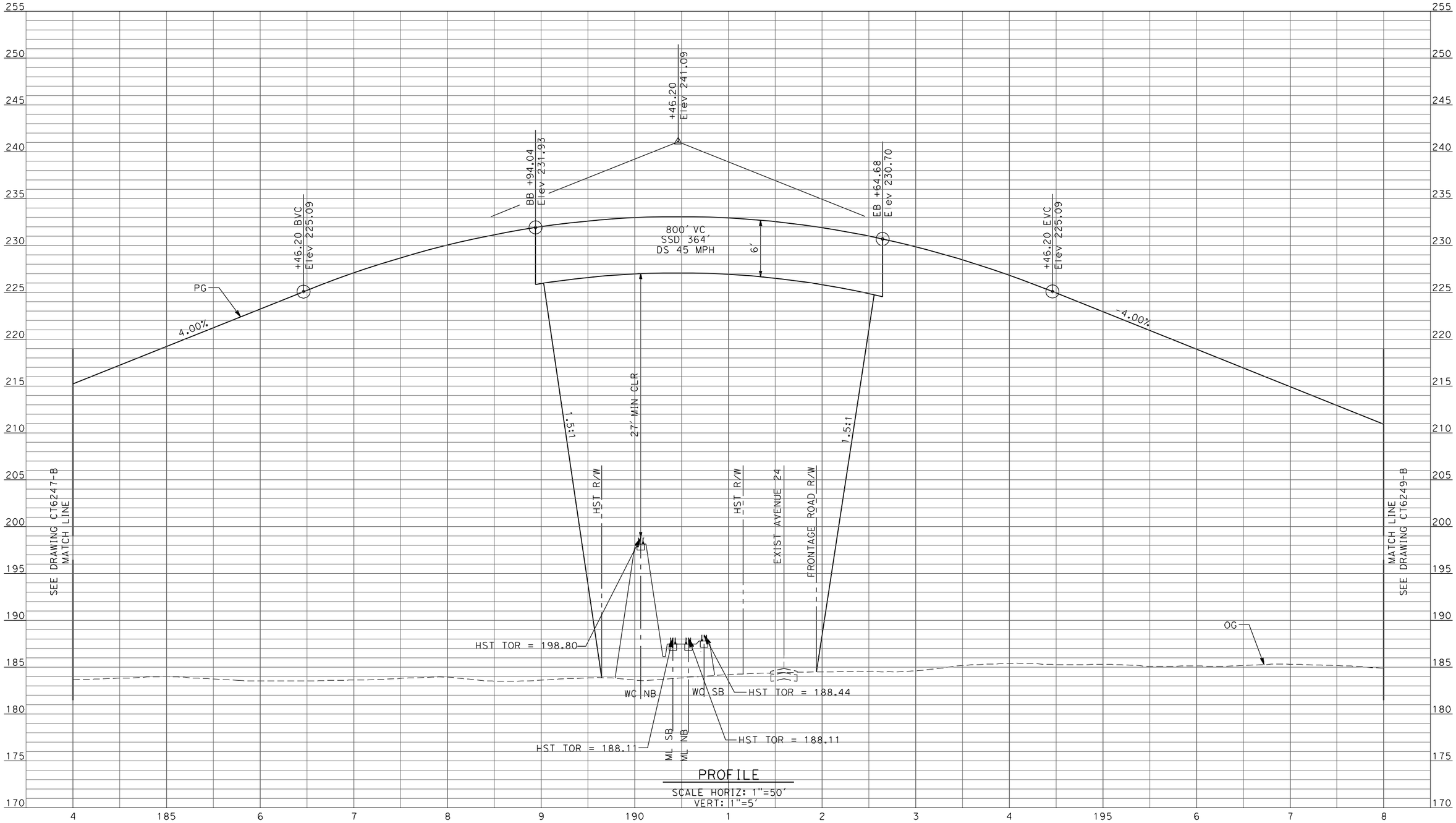
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAINLINE/WYE DO - (HYBRID)
GRADE SEPARATION - ROAD 10 ALONG EXIST ALT 2
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6247-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ayeled



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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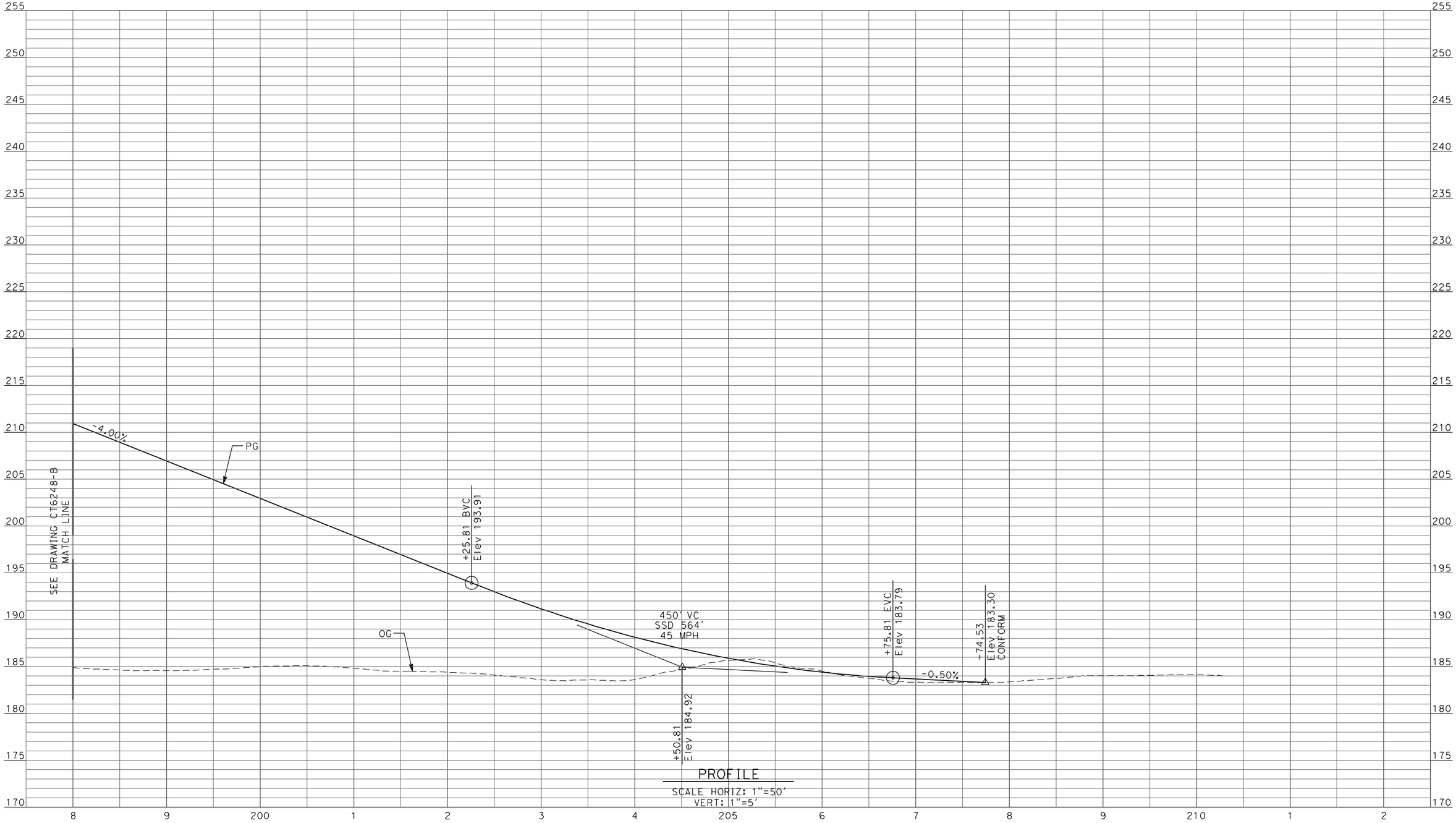
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAINLINE/WYE DO - (HYBRID)
GRADE SEPARATION - ROAD 10 ALONG EXIST ALT 2
PROFILE
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6248-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ayeled



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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Sacramento, CA 95811
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAINLINE/WYE DO - (HYBRID)
GRADE SEPARATION - ROAD 10 ALONG EXIST ALT 2
PROFILE
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT6249-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ayeled

SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	SHEET TITLE LINE 5	SHEET TITLE LINE 6
		ROADWAY BRIDGE STRUCTURE PLAN			
		HYBRID ALTERNATIVE/AVENUE 24			
			GENERAL		
	SB1301	HYBRID ALTERNATIVE	AVENUE 24	INDEX OF DRAWINGS	SHEET 1 OF 1
	SB1302	HYBRID ALTERNATIVE	AVENUE 24	STRUCTURE INDEX MAP	SHEET 1 OF 1
			OVERHEAD BRIDGES		
	ST1001	BNSF MAIN LINE	AVENUE 21	AVENUE 9 OVERHEAD	PLANNING STUDY
	ST1002	BNSF MAIN LINE	AVENUE 21	AVENUE 10 OVERHEAD	PLANNING STUDY
	ST1003	BNSF MAIN LINE	AVENUE 21	AVENUE 11 OVERHEAD	PLANNING STUDY
	ST1004	BNSF MAIN LINE	AVENUE 21	AVENUE 12 OVERHEAD	PLANNING STUDY
	ST1005	BNSF MAIN LINE	AVENUE 21	AVENUE 13 OVERHEAD	PLANNING STUDY-SHEET 1 OF 2
	ST1005A	BNSF MAIN LINE	AVENUE 21	AVENUE 13 OVERHEAD	PLANNING STUDY-SHEET 2 OF 2
	ST1006	BNSF MAIN LINE	AVENUE 21	AVENUE 15 OVERHEAD	PLANNING STUDY
	ST1007	BNSF MAIN LINE	AVENUE 21	AVENUE 15½ OVERHEAD	PLANNING STUDY
	ST1009	BNSF MAIN LINE	AVENUE 21	AVENUE 17 OVERHEAD	PLANNING STUDY
	ST1010	BNSF MAIN LINE - HYBRID	AVENUE 21	ROAD 27 OVERHEAD	PLANNING STUDY
	ST1011	BNSF MAIN LINE - HYBRID	AVENUE 21	ROAD 26 OVERHEAD	PLANNING STUDY
	ST1035	BNSF MAIN LINE	AVENUE 24	AVENUE 20 OVERHEAD	PLANNING STUDY
	ST1036	BNSF MAIN LINE	AVENUE 24	AVENUE 20½ OVERHEAD	PLANNING STUDY
	ST1037	BNSF MAIN LINE	AVENUE 24	AVENUE 20½ OVERHEAD	PLANNING STUDY
	ST1038	BNSF MAIN LINE	AVENUE 24	ROAD 24 OVERHEAD	PLANNING STUDY
	ST1039	BNSF MAIN LINE	AVENUE 24	ROAD 24 OVERHEAD	PLANNING STUDY
	ST1040	BNSF MAIN LINE	AVENUE 24	ROAD 22 OVERHEAD	PLANNING STUDY
	ST1041A	BNSF MAIN LINE	AVENUE 24	ROAD 20 OVERHEAD	PLANNING STUDY
	ST1042	BNSF MAIN LINE	AVENUE 24	ROAD 16 OVERHEAD	PLANNING STUDY
	ST1043	BNSF MAIN LINE	AVENUE 24	ROAD 15 OVERHEAD	PLANNING STUDY
	ST1047	BNSF MAIN LINE	AVENUE 24	ROAD 9 OVERHEAD	PLANNING STUDY
	ST1160	HYBRID MAIN LINE/WYE CONNECTION	AVENUE 24	ROAD 10 OVERHEAD	PLANNING STUDY
	ST1121	BNSF MAIN LINE - HYBRID	AVENUE 24	ROAD 13 OVERHEAD	PLANNING STUDY-SHEET 1 OF 2
	ST1161	UPRR/SR 99 MERCED CONNECTION - HYBRID	AVENUE 24	ROAD 13 OVERHEAD	PLANNING STUDY-SHEET 2 OF 2
	ST1133	UPRR/SR 99 MERCED CONNECTION	AVENUE 24	AVENUE 25 OVERHEAD	PLANNING STUDY-SHEET 1 OF 2
	ST1134	UPRR/SR 99 WYE CONNECTION	AVENUE 24	AVENUE 25 OVERHEAD	PLANNING STUDY-SHEET 2 OF 2
	ST1135	UPRR/SR 99 WYE & MERCED CONNECTIONS	AVENUE 24	AVENUE 26 OVERHEAD	PLANNING STUDY
	ST1136	UPRR/SR 99 MERCED CONNECTION	AVENUE 24	CROSS ROAD OVERHEAD	PLANNING STUDY
	ST1139	UPRR/SR 99 MERCED DO - HYBRID & WYE CONNECTION	AVENUE 24	SANDY MUSH ROAD OVERHEAD	PLANNING STUDY
	ST1180	UPRR/SR 99 MERCED CONNECTION	AVENUE 21	G STREET OVERHEAD	PLANNING STUDY
	ST1070	BNSF MAIN LINE	AVENUE 21	AVENUE 7 OVERHEAD	PLANNING STUDY

REV	DATE	BY	CHK	APP	DESCRIPTION
2	2/24/12	HL	EC	AB	
1	12/28/11	HL	EC	AB	

DESIGNED BY H. Lee
DRAWN BY E. CISNEROS
CHECKED BY J. RENTERIA
IN CHARGE A. Boone
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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2020 L Street, Suite 300
Sacramento, CA 95811

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

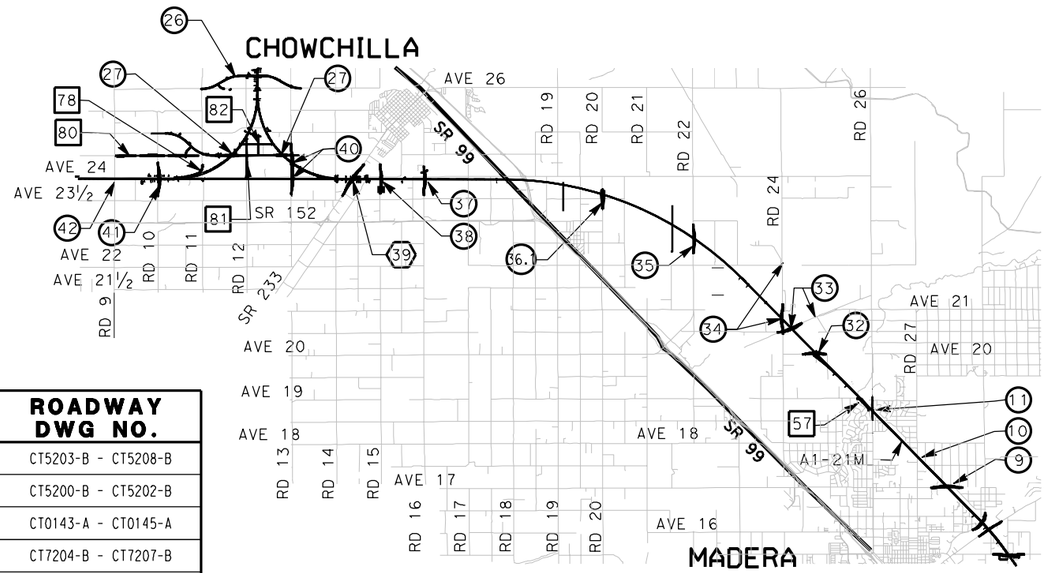
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
HYBRID ALTERNATIVE
AVENUE 24
INDEX OF DRAWINGS
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. SB1301
SCALE No scale
SHEET NO. OF

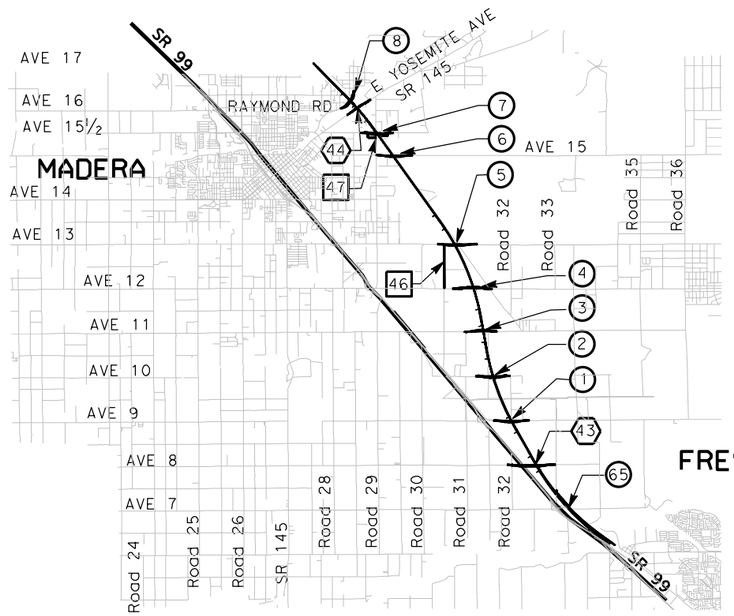
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cisnerose

LOCATION NO.	SHEET TITLE	STRUCTURE DWG NO.	ROADWAY DWG NO.
(1)	AVENUE 9 OVERHEAD	ST1001	CT0001-A - CT0003-A
(2)	AVENUE 10 OVERHEAD	ST1002	CT0004-A - CT0006-A
(3)	AVENUE 11 OVERHEAD	ST1003	CT0007-A - CT0009-A
(4)	AVENUE 12 OVERHEAD	ST1004	CT0010-A - CT0012-A
(5)	AVENUE 13 OVERHEAD	ST1005 & ST1005A	CT0013-A - CT0016-A
(6)	AVENUE 15 OVERHEAD	ST1006	CT0017-A - CT0019-A
(7)	AVENUE 15½ OVERHEAD	ST1007	CT0020-A - CT0022-A
(8)	RAYMOND ROAD OVERHEAD	ST1008	CT0023-A - CT0025-A
(9)	AVENUE 17 OVERHEAD	ST1009	CT0026-A - CT0028-A
(10)	ROAD 27 OVERHEAD	ST1010	CT0029-A - CT0031-A
(11)	ROAD 26 OVERHEAD	ST1011	CT0032-A - CT0034-A
(25)	CROSS ROAD OVERHEAD	ST1136	CT5238-B - CT5240-B
(26)	AVENUE 26 OVERHEAD	ST1135	CT5227-B - CT5236-B
(27)	AVENUE 25 OVERHEAD	ST1133 & ST1134	CT5209-B - CT5225-B
(32)	AVENUE 20 OVERHEAD	ST1035	CT0113-A - CT0115-A
(33)	AVENUE 20½ OVERHEAD	ST1036 & ST1037	CT0116-A - CT0118-A
(34)	ROAD 24 OVERHEAD	ST1038 & ST1039	CT0119-A - CT0121-A
(35)	ROAD 22 OVERHEAD	ST1040	CT0122-A - CT0124-A
(36.1)	ROAD 20 OVERHEAD	ST1041A	CT0125-A - CT0127-A
(37)	ROAD 16 OVERHEAD	ST1042	CT0128-A - CT0130-A
(38)	ROAD 15 OVERHEAD	ST1043	CT0131-A - CT0133-A

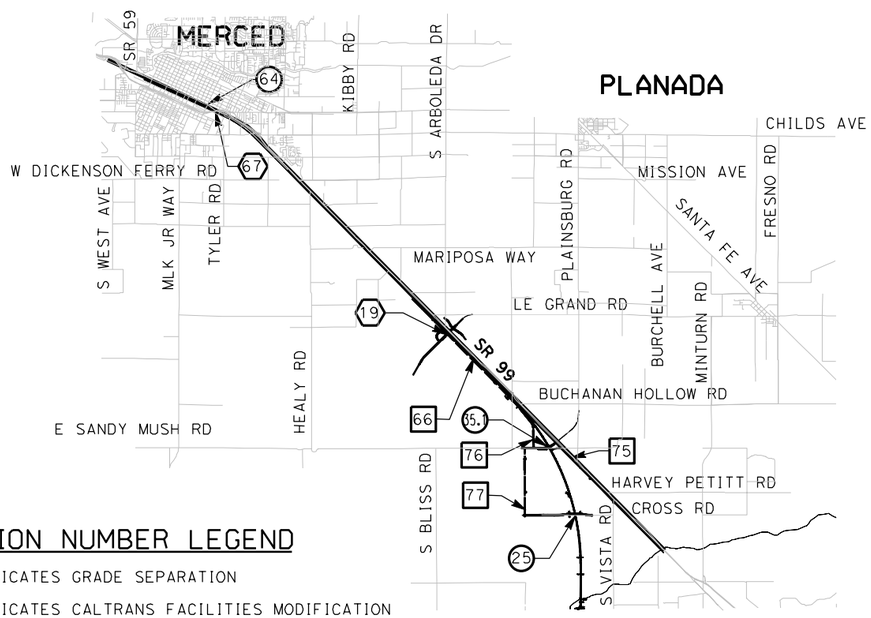
LOCATION NO.	SHEET TITLE	STRUCTURE DWG NO.	ROADWAY DWG NO.
(40)	ROAD 13 OVERHEAD	ST1121 & ST1161	CT5203-B - CT5208-B
(41)	ROAD 10 OVERHEAD	ST1160	CT5200-B - CT5202-B
(42)	ROAD 9 OVERHEAD	ST1047	CT0143-A - CT0145-A
(35.1)	SANDY MUSH ROAD OVERHEAD	ST1139	CT7204-B - CT7207-B
(64)	G STREET OVERHEAD	ST1180	CT0149-A
(65)	AVENUE 7 OVERHEAD	ST1070	



VICINITY MAP 2



VICINITY MAP 3



VICINITY MAP 1

LOCATION NUMBER LEGEND

(X) - INDICATES GRADE SEPARATION

⟨X⟩ - INDICATES CALTRANS FACILITIES MODIFICATION

[X] - INDICATES LOCAL ROAD RELOCATION

9000 0 9000 18000

GRAPHIC SCALE

REV	DATE	BY	CHK	APP	DESCRIPTION
2	02/24/12	HL	EC	AB	
1	12/28/11	HL	EC	AB	

DESIGNED BY H. Lee
DRAWN BY E. CISNEROS
CHECKED BY J. ZANDIAN
IN CHARGE A. Boone
DATE 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

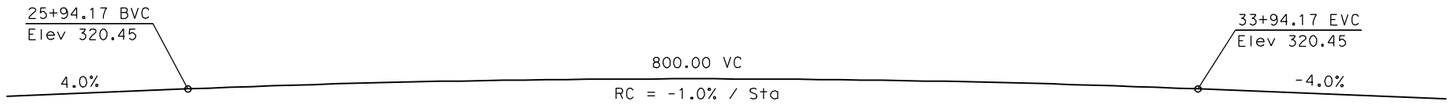
AECOM Technical Services, Inc.
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Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

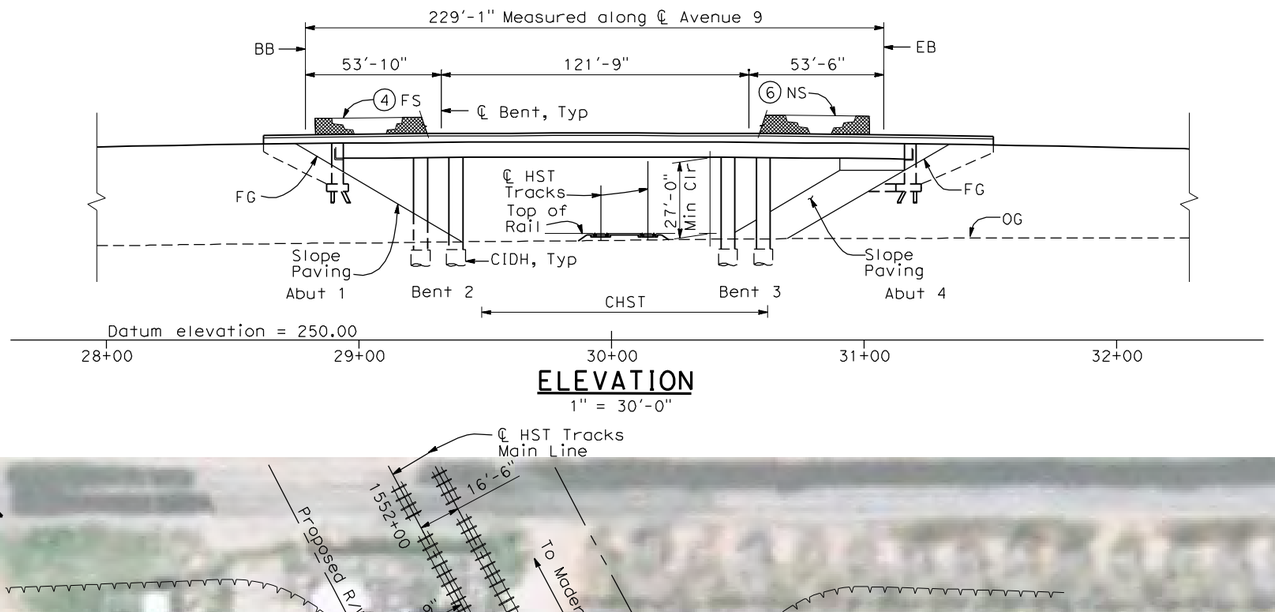
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
HYBRID ALTERNATIVE
AVENUE 24
STRUCTURE INDEX MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. SB1302
SCALE As shown
SHEET NO. OF

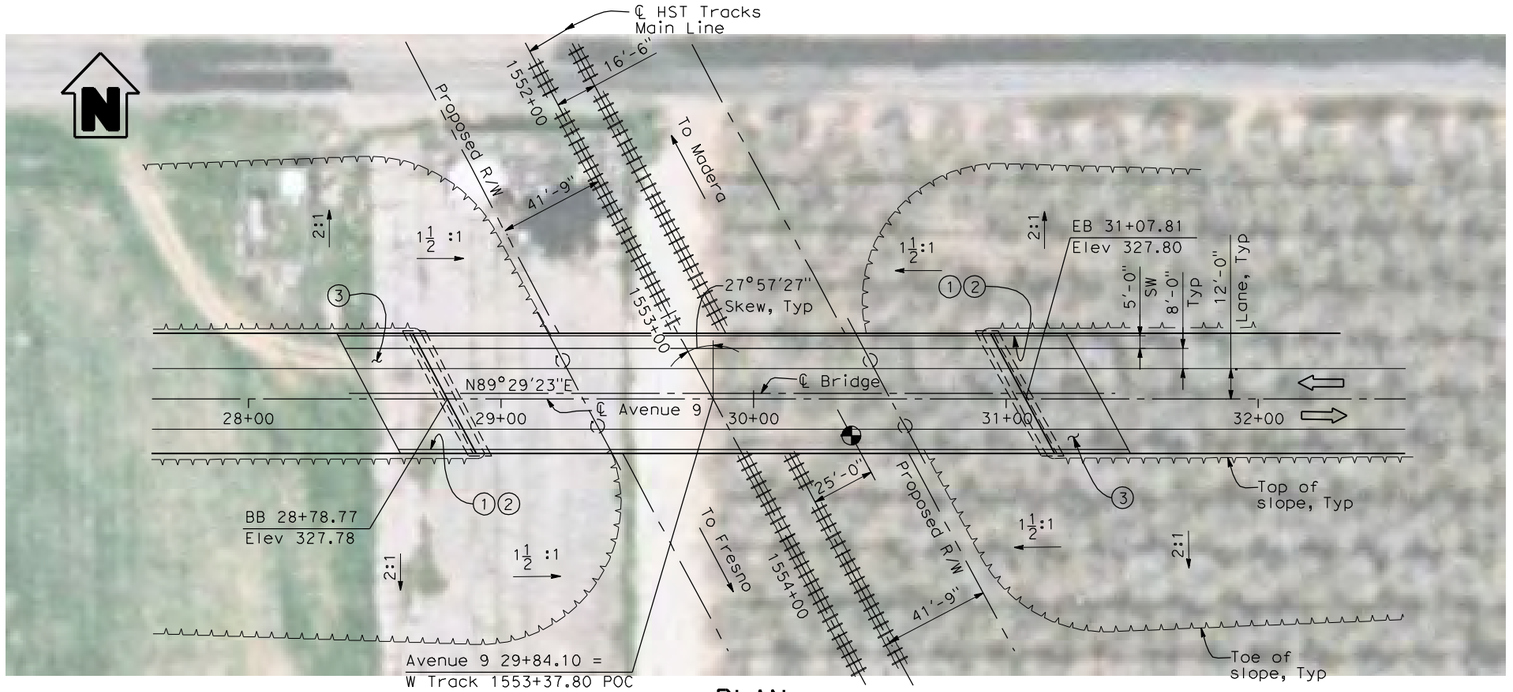
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cisneros



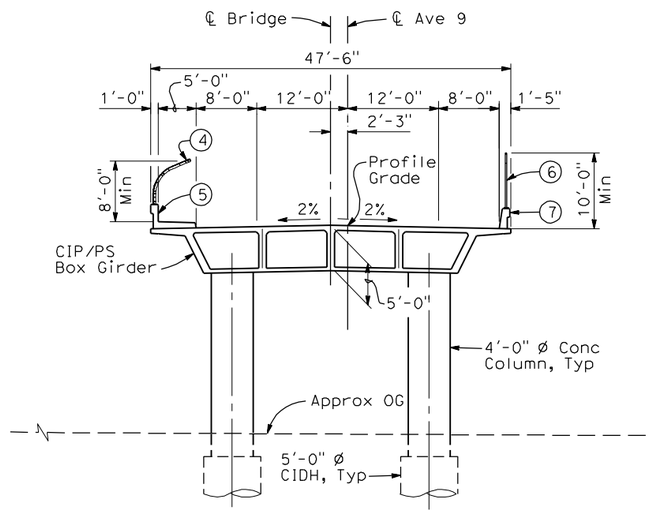
PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"



TYPICAL SECTION
1" = 10'-0"

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "Avenue 9 OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Bearing of Avenue 9 to be determined.
9. Existing underground and overhead utilities to be determined.

LEGEND:

- Direction of traffic
- Point of minimum vertical clearance

DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	5'-0"
LENGTH	=	229'-1"
WIDTH	=	47'-6"
AREA	=	10,880 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 1

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY E. CISNEROS
CHECKED BY J. RENTERIA
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

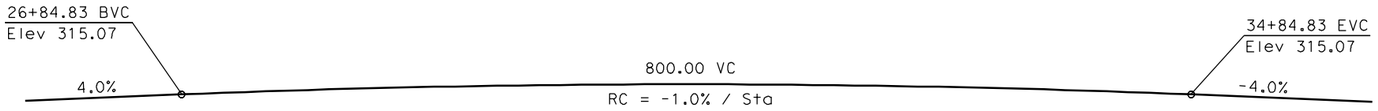
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

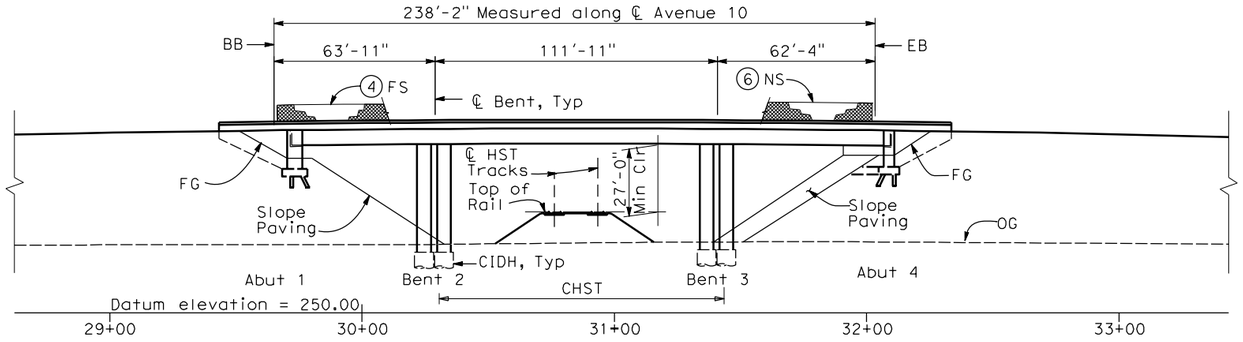
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
AVENUE 9 OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1001
SCALE As shown
SHEET NO. OF

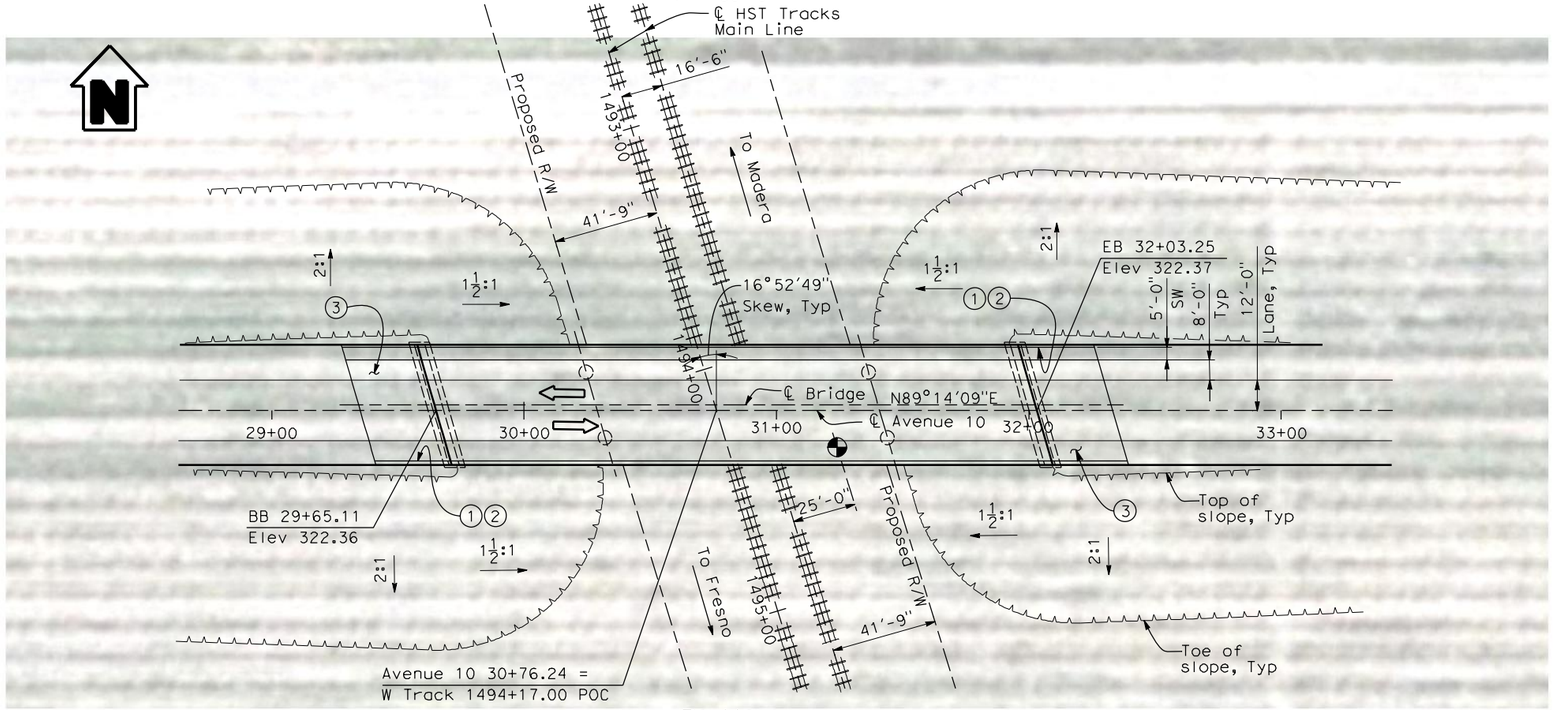
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cisnerose



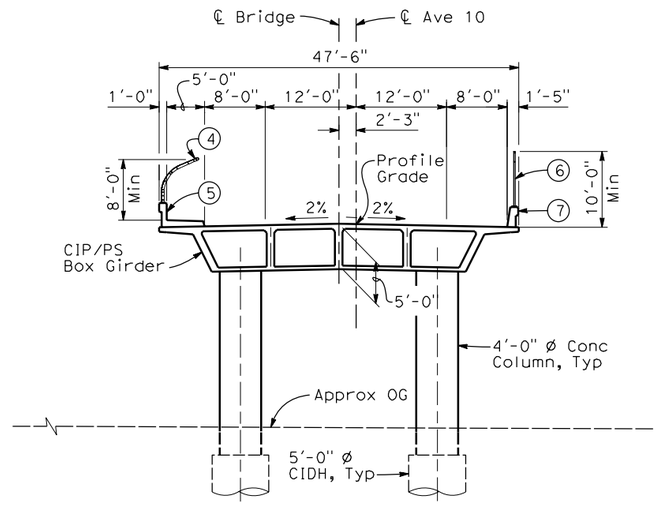
PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"



TYPICAL SECTION
1" = 10'-0"

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "Avenue 10 OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Bearing of Avenue 10 to be determined.
9. Existing underground and overhead utilities to be determined.

LEGEND:

- Direction of traffic
- Point of minimum vertical clearance

DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	5'-0"
LENGTH	=	238'-2"
WIDTH	=	47'-6"
AREA	=	11,312 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 2

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	01/13/12	HL	JR	AB	

DESIGNED BY H. LEE
DRAWN BY E. CISNEROS
CHECKED BY J. RENTERIA
IN CHARGE A. BOONE
DATE 01/13/2012

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

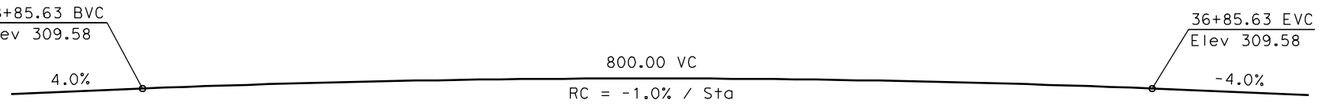
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

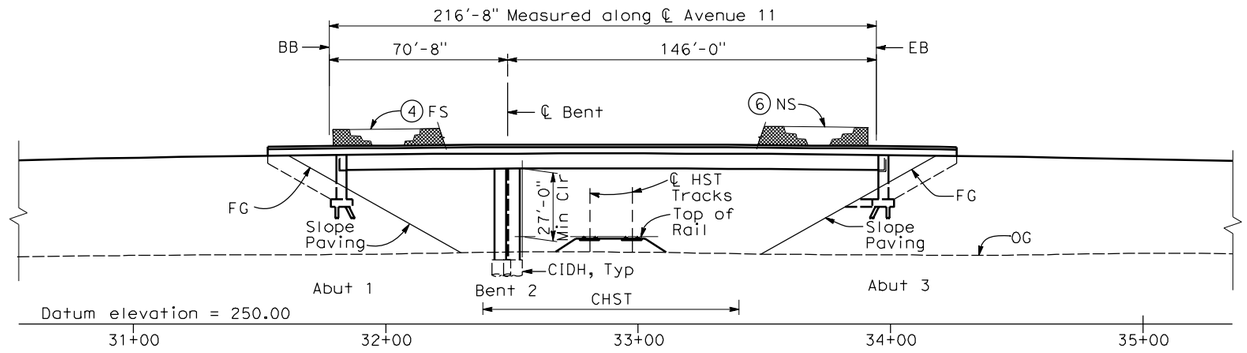
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
AVENUE 10 OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1002
SCALE As shown
SHEET NO. OF

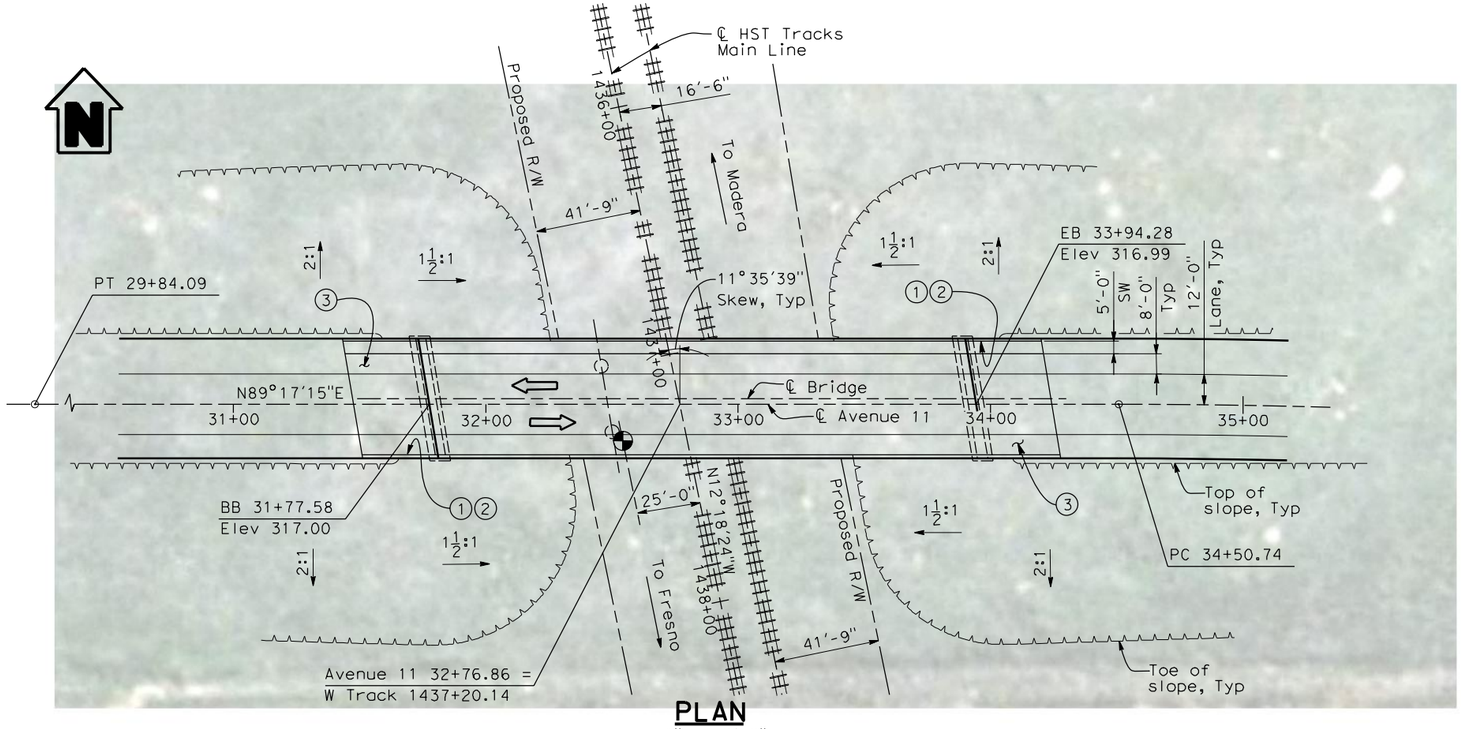
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cisnerose



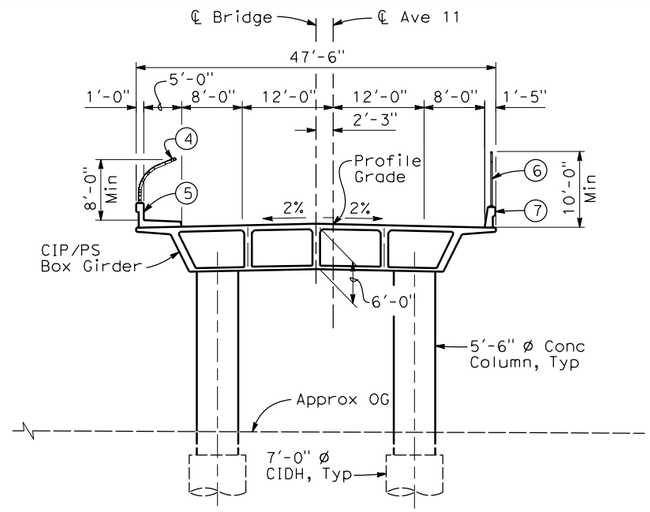
PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"



TYPICAL SECTION
1" = 10'-0"

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "Avenue 11 OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Bearing of Avenue 11 to be determined.
9. Existing underground and overhead utilities to be determined.

LEGEND:

- Direction of traffic
- Point of minimum vertical clearance

DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	216'-8"
WIDTH	=	47'-6"
AREA	=	10,294 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 3

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	01/13/12	HL	JR	AB	

DESIGNED BY H. LEE
DRAWN BY E. CISNEROS
CHECKED BY J. RENTERIA
IN CHARGE A. BOONE
DATE 01/13/2012

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

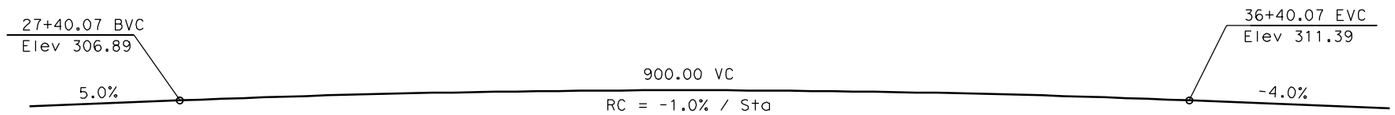
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

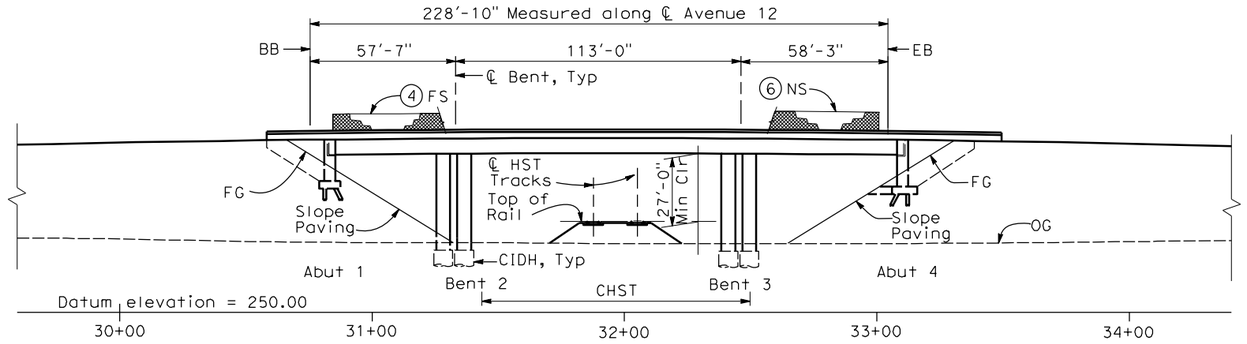
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
AVENUE 11 OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1003
SCALE As shown
SHEET NO. OF

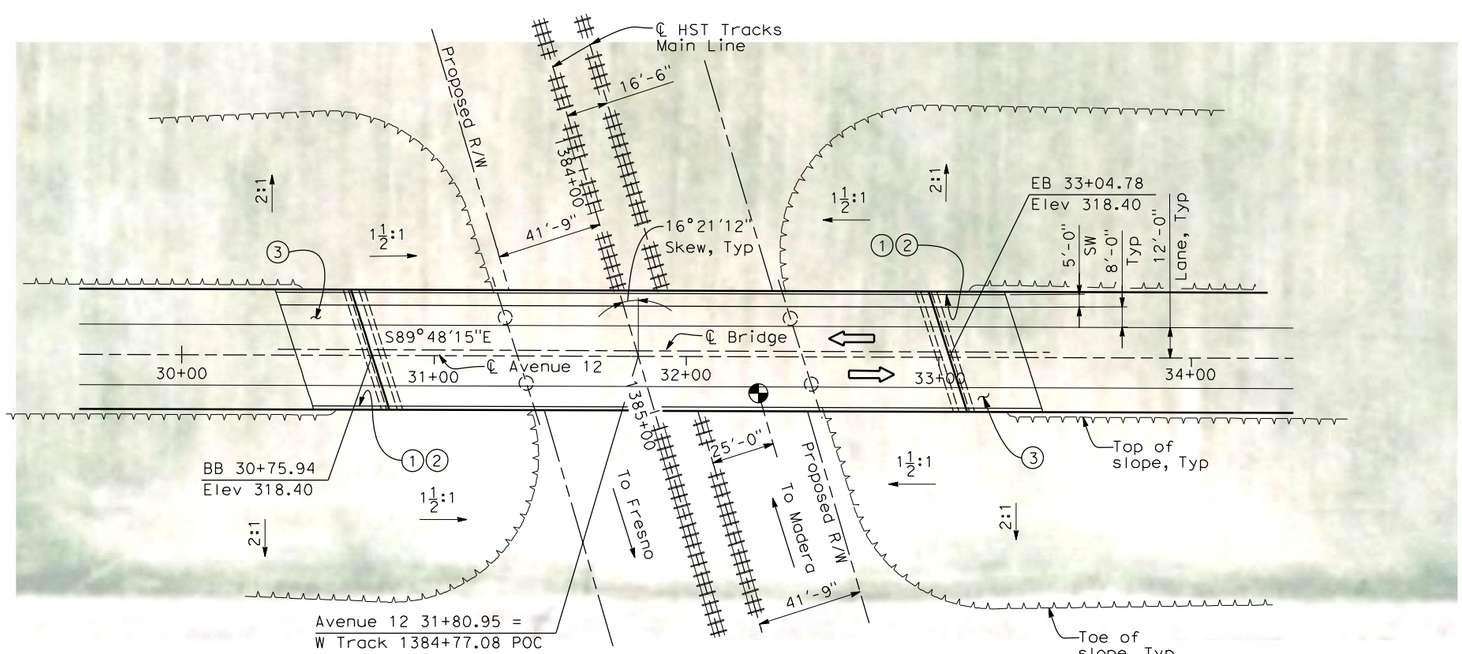
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cisneros



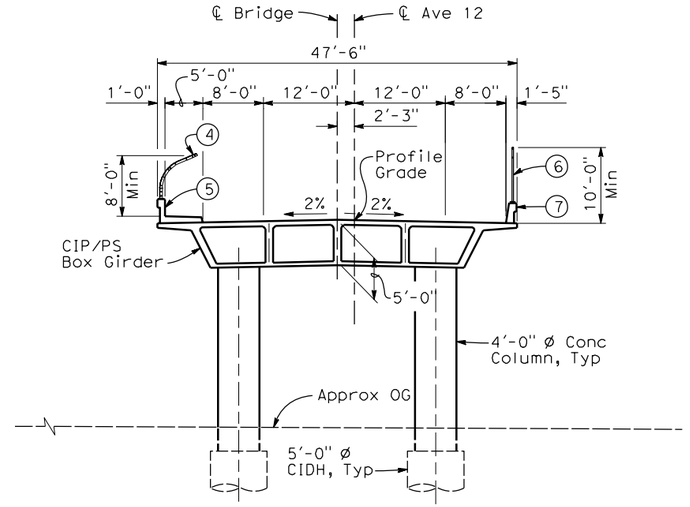
PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"



TYPICAL SECTION
1" = 10'-0"

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "Avenue 12 OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Bearing of Avenue 12 to be determined.
9. Existing underground and overhead utilities to be determined.

LEGEND:

⇦ Direction of traffic

Point of minimum vertical clearance

DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	5'-0"
LENGTH	=	228'-10"
WIDTH	=	47'-6"
AREA	=	10,870 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 4

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	01/13/12	HL	JR	AB	

DESIGNED BY H. LEE
DRAWN BY E. CISNEROS
CHECKED BY J. RENTERIA
IN CHARGE A. BOONE
DATE 01/13/2012

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

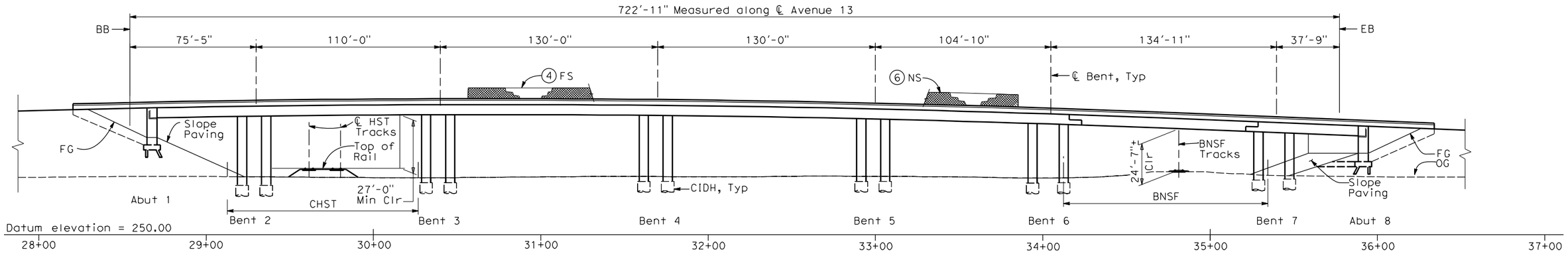
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
AVENUE 12 OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1004
SCALE As shown
SHEET NO. OF

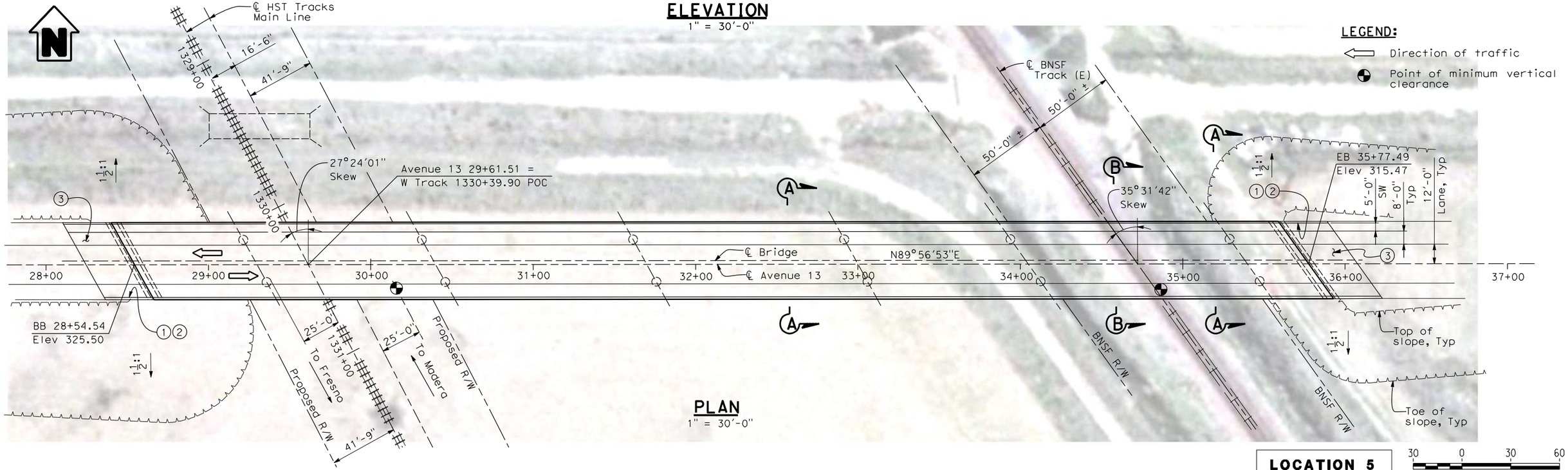
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cisnerose



PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"

LEGEND:

- Direction of traffic
- Point of minimum vertical clearance

LOCATION 5

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	01/13/12	HL	JR	AB	

DESIGNED BY H. LEE
DRAWN BY E. CISNEROS
CHECKED BY J. RENTERIA
IN CHARGE A. BOONE
DATE 01/13/2012

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

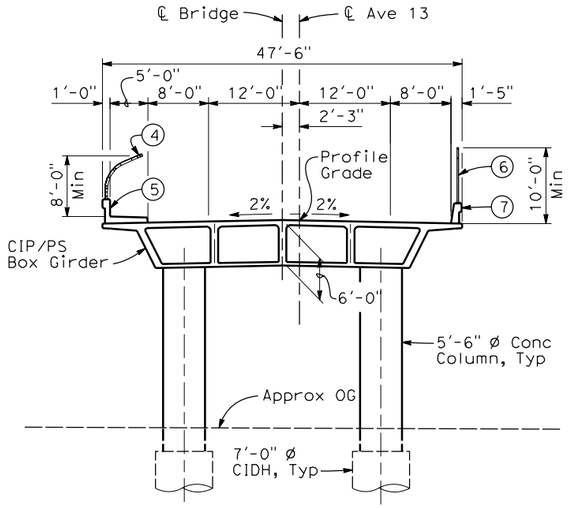
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - HYBRID
AVENUE 24
AVENUE 13 OVERHEAD
PLANNING STUDY - SHEET 1 OF 2

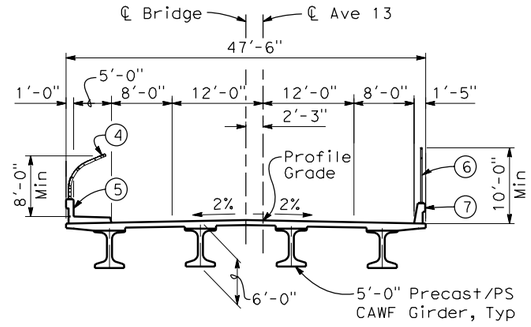
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DRAWING NO. ST1005
SCALE As shown
SHEET NO. OF

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cisnerose



SECTION A-A

1"=10'-0"



SECTION B-B

1"=10'-0"

DATE OF ESTIMATE	
BRIDGE REMOVAL	=
STRUCTURE DEPTH	= 6'-0"
LENGTH	= 722'-11"
WIDTH	= 47'-6"
AREA	= 34,340 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=
TOTAL COST	=

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "Avenue 13 OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Bearing of Avenue 13 to be determined.
9. Existing underground and overhead utilities to be determined.

LOCATION 5

10 0 10 20
1"=10'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	01/13/12	HL	JR	AB	

DESIGNED BY H. LEE
DRAWN BY E. CISNEROS
CHECKED BY J. RENTERIA
IN CHARGE A. BOONE
DATE 01/13/2012

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

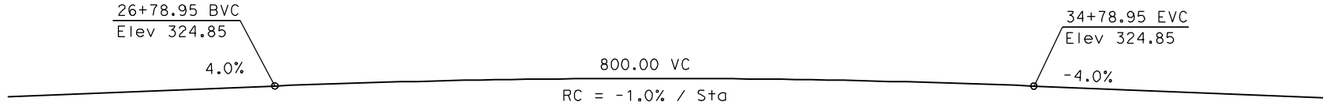
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
AVENUE 13 OVERHEAD
PLANNING STUDY - SHEET 2 OF 2

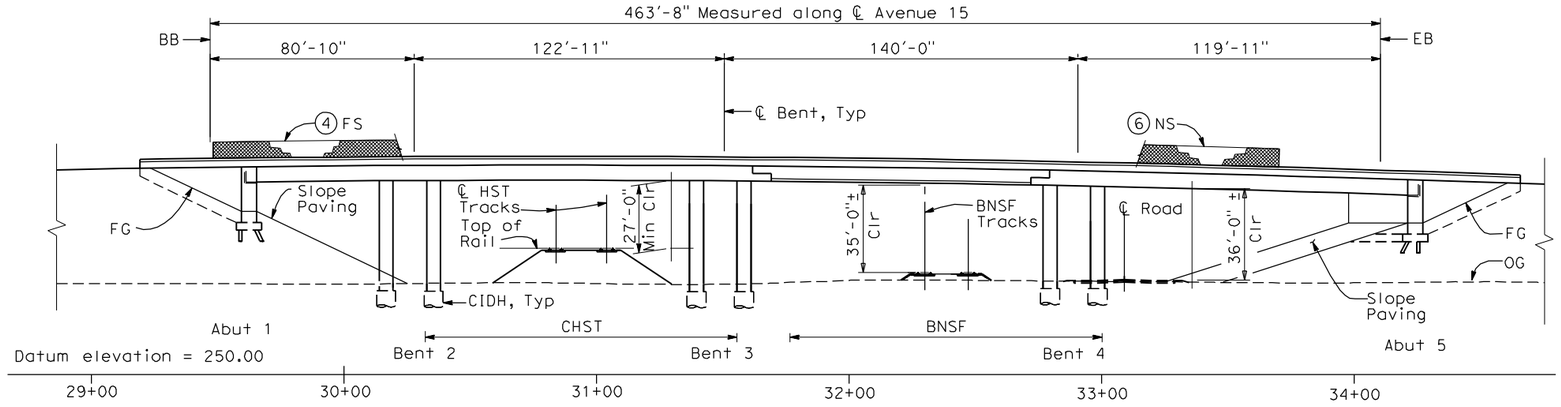
CONTRACT NO. HSR06-007
DRAWING NO. ST1005A
SCALE As shown
SHEET NO. OF

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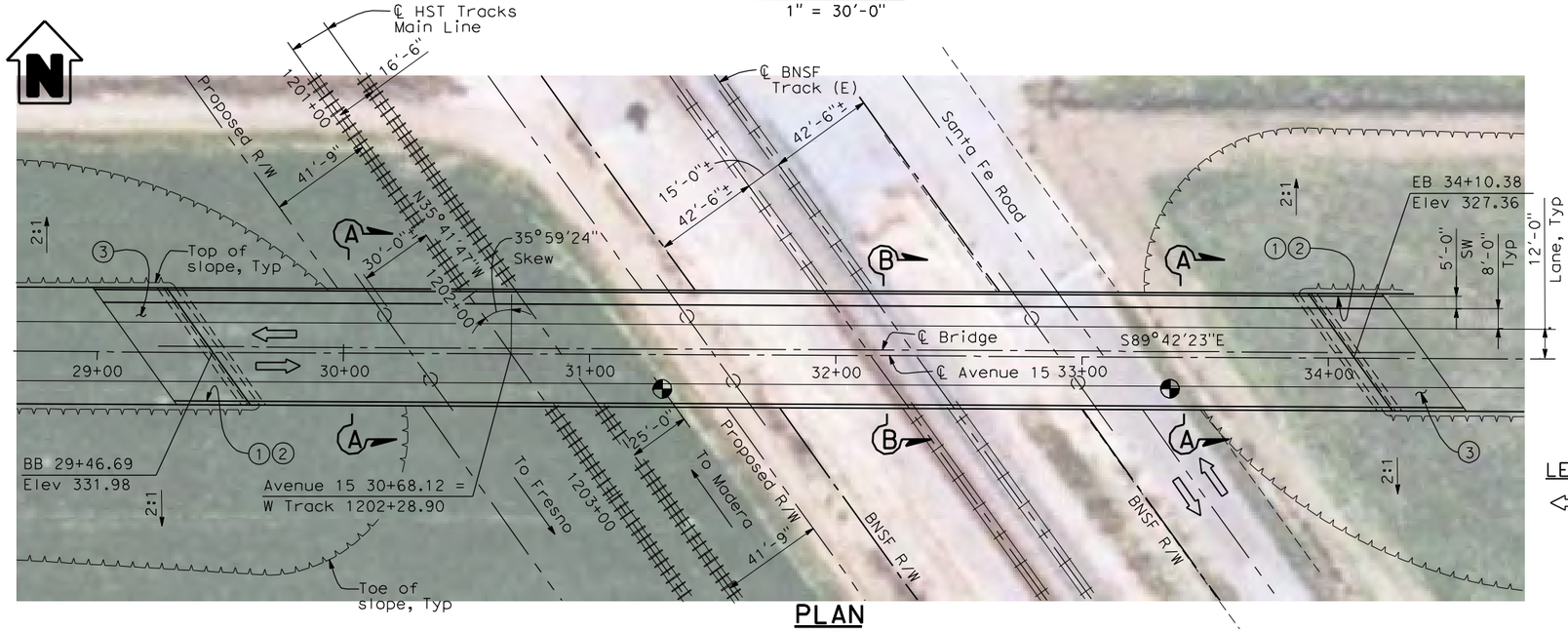


PROFILE GRADE
NTS

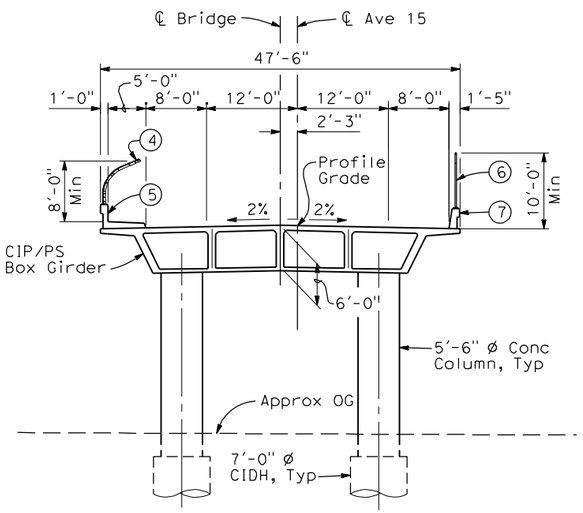
DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	463'-8"
WIDTH	=	47'-6"
AREA	=	22,026 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	



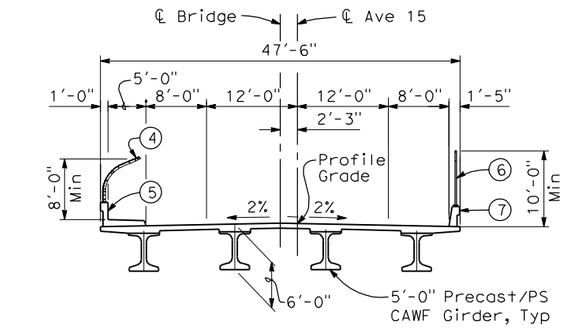
ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"



SECTION A-A
1"=10'-0"



SECTION B-B
1"=10'-0"

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "Avenue 15 OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Bearing of Avenue 15 to be determined.
9. Existing underground and overhead utilities to be determined.

LEGEND:

⇦ Direction of traffic

Point of minimum vertical clearance

Pt = Petroleum
UG = Underground

LOCATION 6

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY E. CISNEROS
CHECKED BY J. RENTERIA
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
AVENUE 15 OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1006
SCALE As shown
SHEET NO. OF

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cisnerose

20+62.41 BVC
Elev 330.53

4.0%

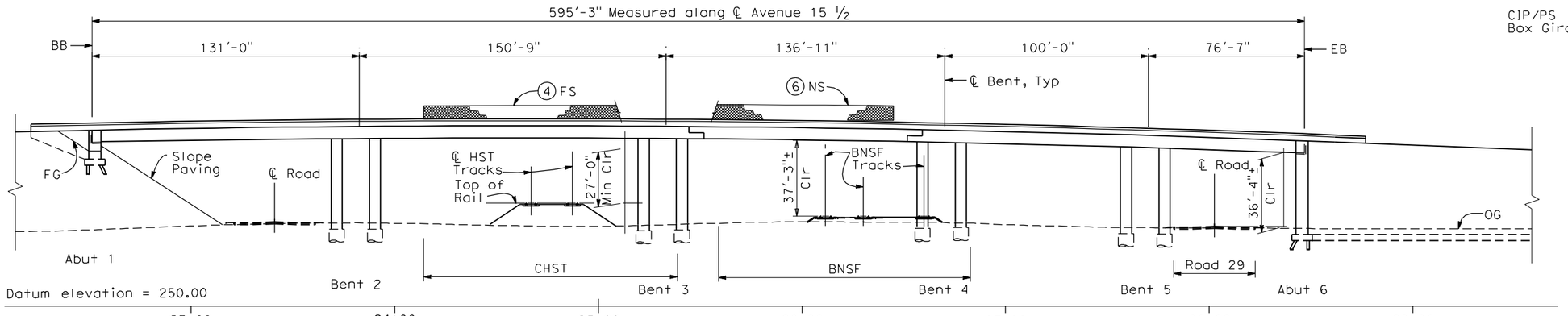
800.00 VC
RC = -1.0% / Sta

-4.0%

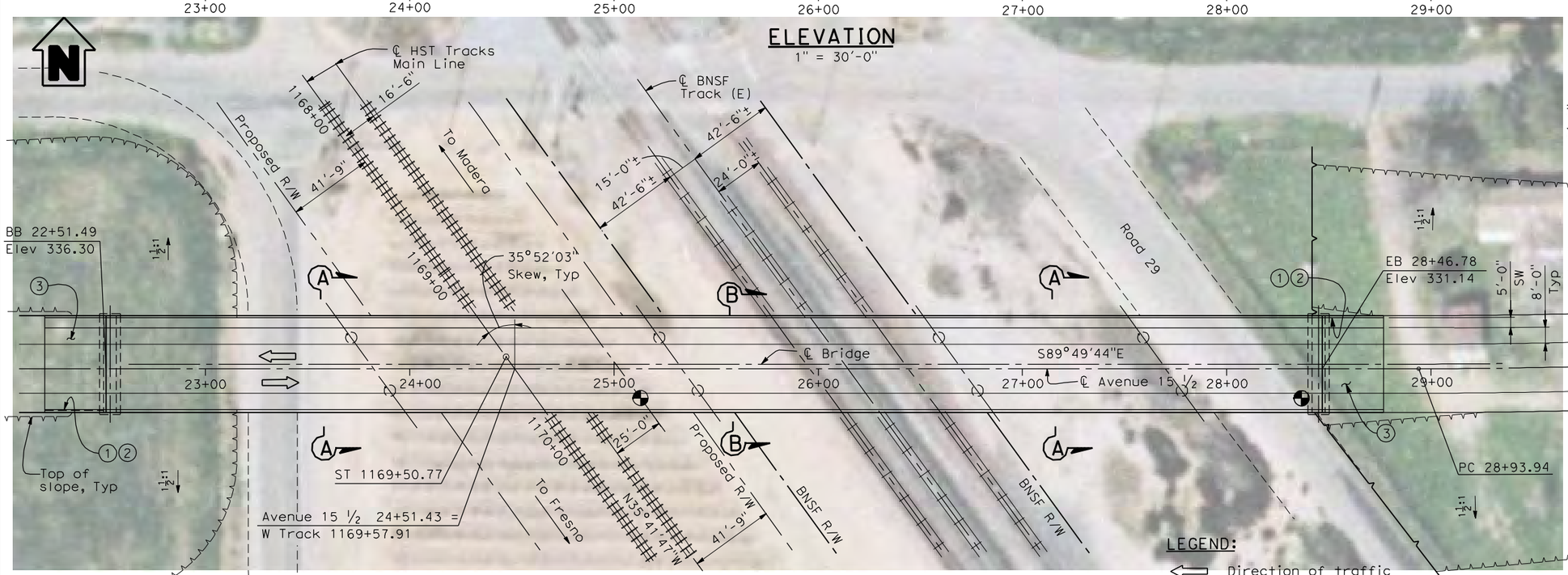
28+62.41 EVC
Elev 330.53

PROFILE GRADE
NTS

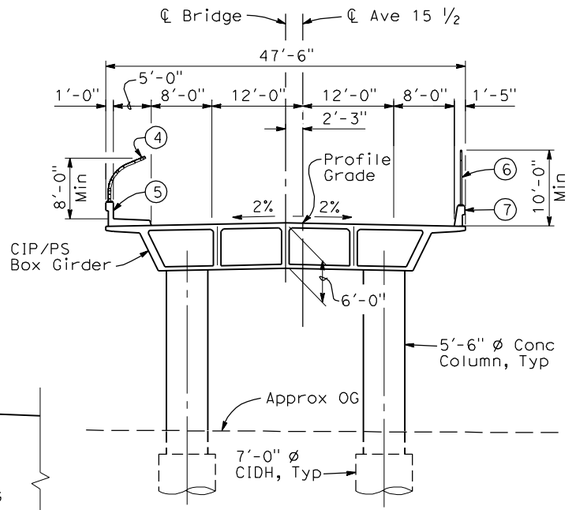
DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	595'-3"
WIDTH	=	47'-6"
AREA	=	28,280 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	



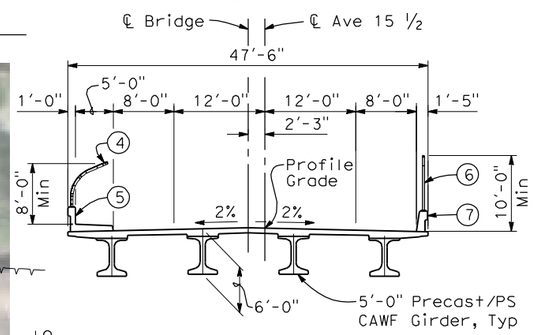
ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"



SECTION A-A
1"=10'-0"



SECTION B-B
1"=10'-0"

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "Avenue 15 ½ OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Bearing of Avenue 15 ½ to be determined.
9. Existing underground and overhead utilities to be determined.

LEGEND:

⇦ Direction of traffic

Point of minimum vertical clearance

Pt = Petroleum
UG = Underground

LOCATION 7

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY E. CISNEROS
CHECKED BY J. RENTERIA
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL

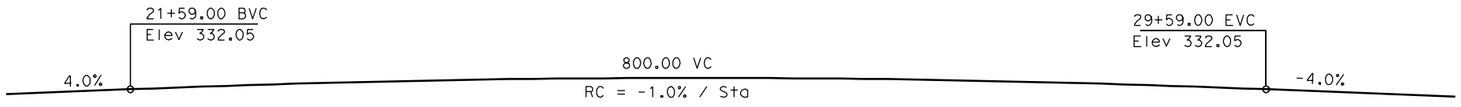
NOT FOR CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

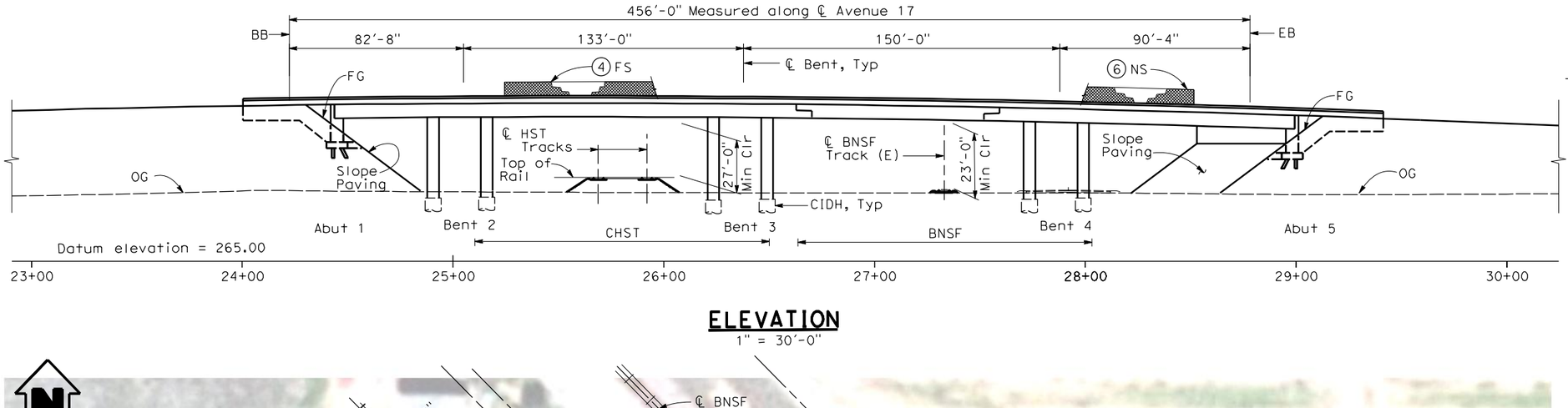
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
AVENUE 15½ OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1007
SCALE As shown
SHEET NO. OF

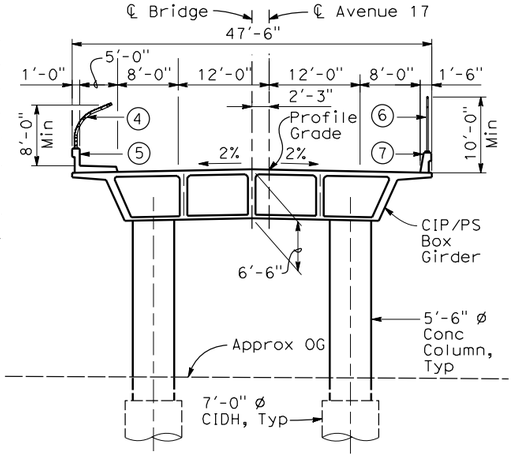


PROFILE GRADE
NTS

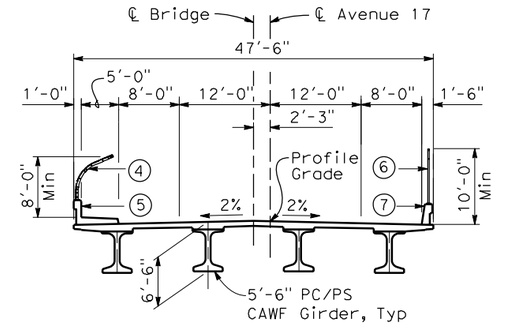
DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-6"
LENGTH	=	456'-0"
WIDTH	=	47'-6"
AREA	=	21,660 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	



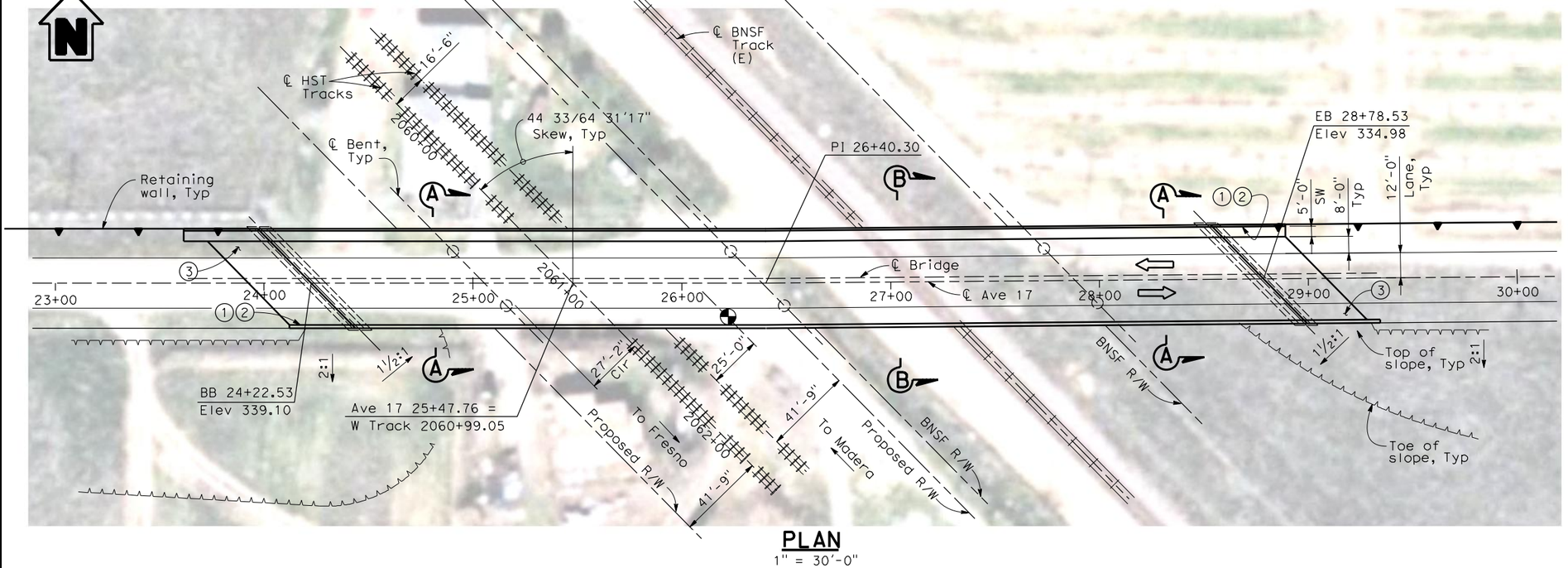
ELEVATION
1" = 30'-0"



SECTION A-A
1"=10'-0"



SECTION B-B
1"=10'-0"



PLAN
1" = 30'-0"

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "Avenue 17 OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Bearing of Avenue 17 and BNSF track to be determined.
9. Existing underground and overhead utilities to be determined.

30 0 30 60
1"=30'

LOCATION 9

REV	DATE	BY	CHK	APP	DESCRIPTION
1	04/11/12	HL	EC	AB	

DESIGNED BY H. LEE
DRAWN BY E. CISNEROS
CHECKED BY L. LEUNG
IN CHARGE A. BOONE
DATE 04/11/2012

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300 Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAIN LINE
AVENUE 21
AVENUE 17 OVERHEAD
PLANNING SYUDY

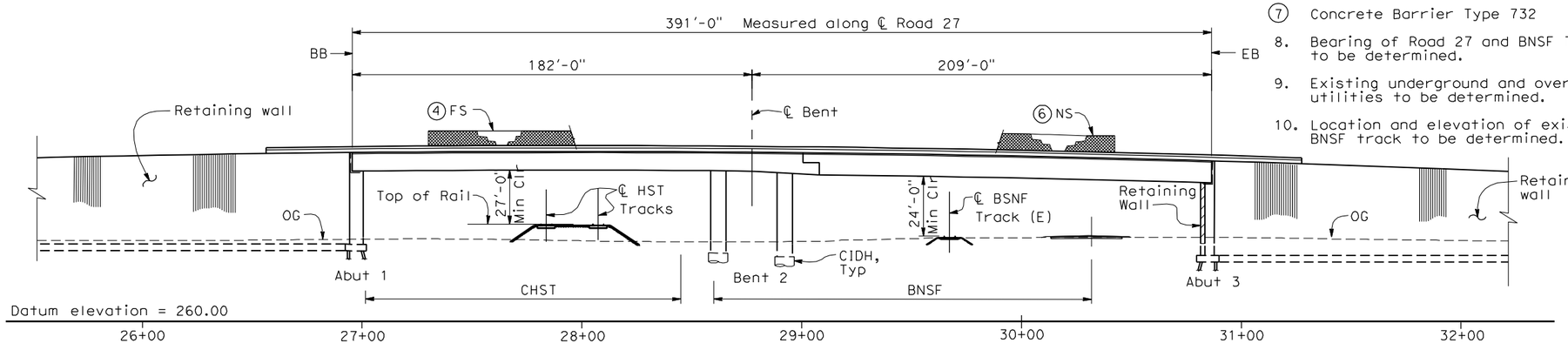
CONTRACT NO.
DRAWING NO. ST1009
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SHEET NO. OF

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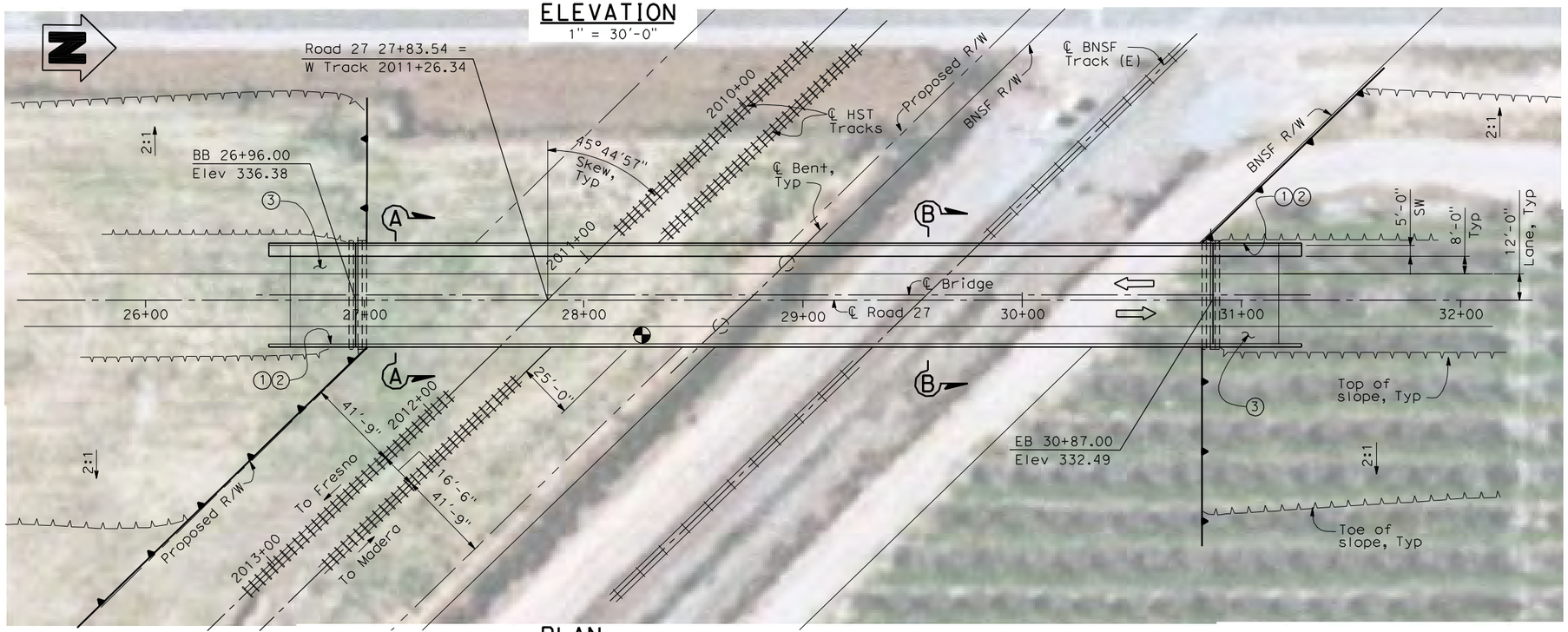
PROFILE GRADE

NTS



ELEVATION

1" = 30'-0"

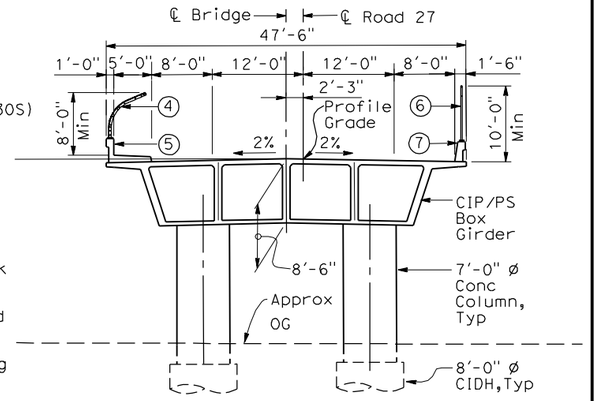


PLAN

1" = 30'-0"

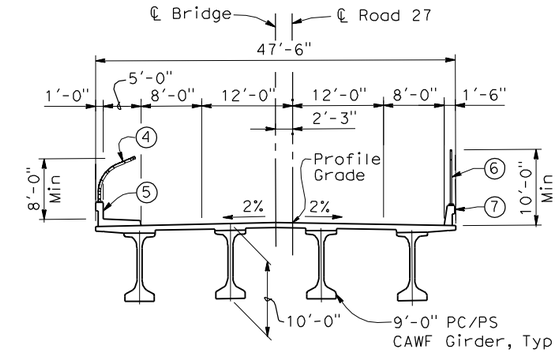
NOTES:

1. Paint "Bridge No. xx-xx"
2. Paint "Road 27 OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Bearing of Road 27 and BNSF Track to be determined.
9. Existing underground and overhead utilities to be determined.
10. Location and elevation of existing BNSF track to be determined.



SECTION A-A

1" = 10'-0"



SECTION B-B

1" = 10'-0"

LEGEND:

- Direction of traffic
- Point of minimum vertical clearance
- Retaining wall

DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	8'-6" - 10'-0"
LENGTH	=	391'-0"
WIDTH	=	47'-6"
AREA	=	18,570 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 10

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY J. TANG
CHECKED BY L. LEUNG
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

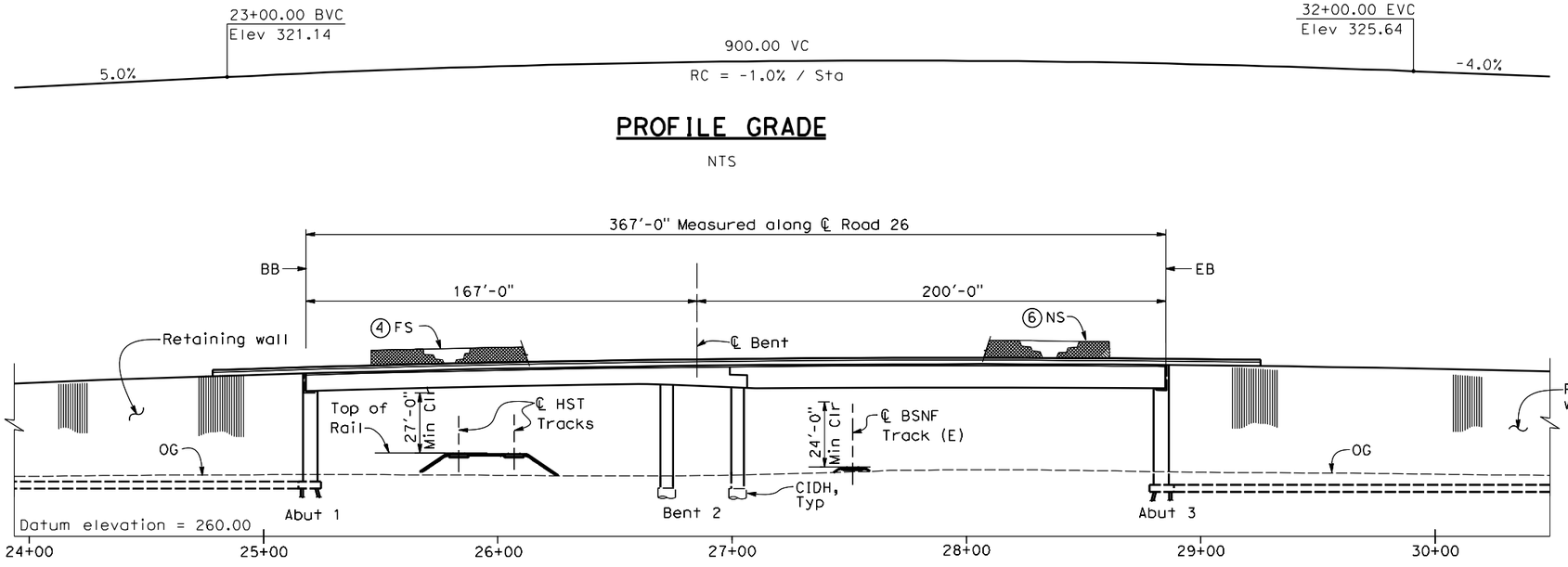
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - HYBRID
AVENUE 21
ROAD 27 OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1010
SCALE AS SHOWN
SHEET NO. OF

C:\snerose 4/30/2011 4:13:28 PM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct\Sheet\APS\A115% cost reduction submittal\GradeStructure\From Oakland\XW-MF-ST1010.dgn

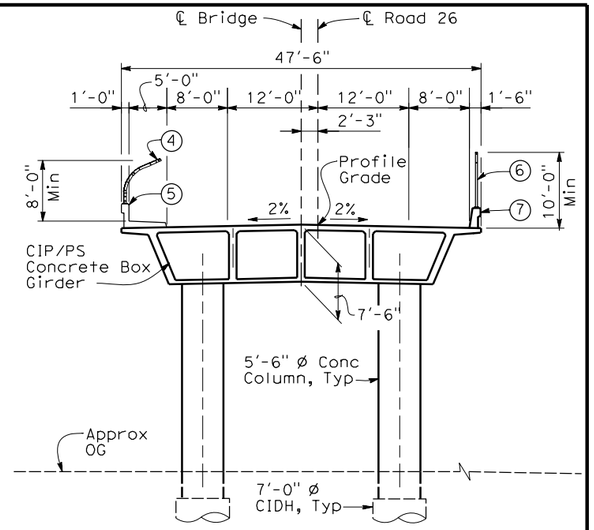


PROFILE GRADE

NTS

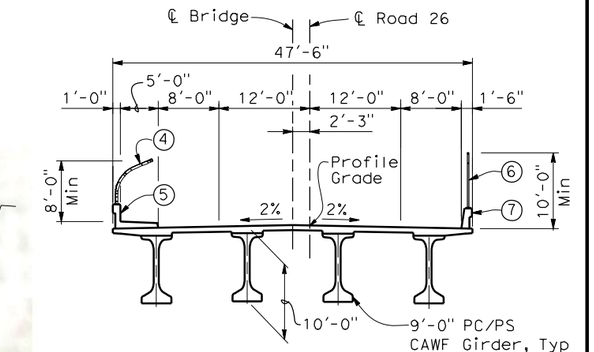
ELEVATION

1" = 30'-0"



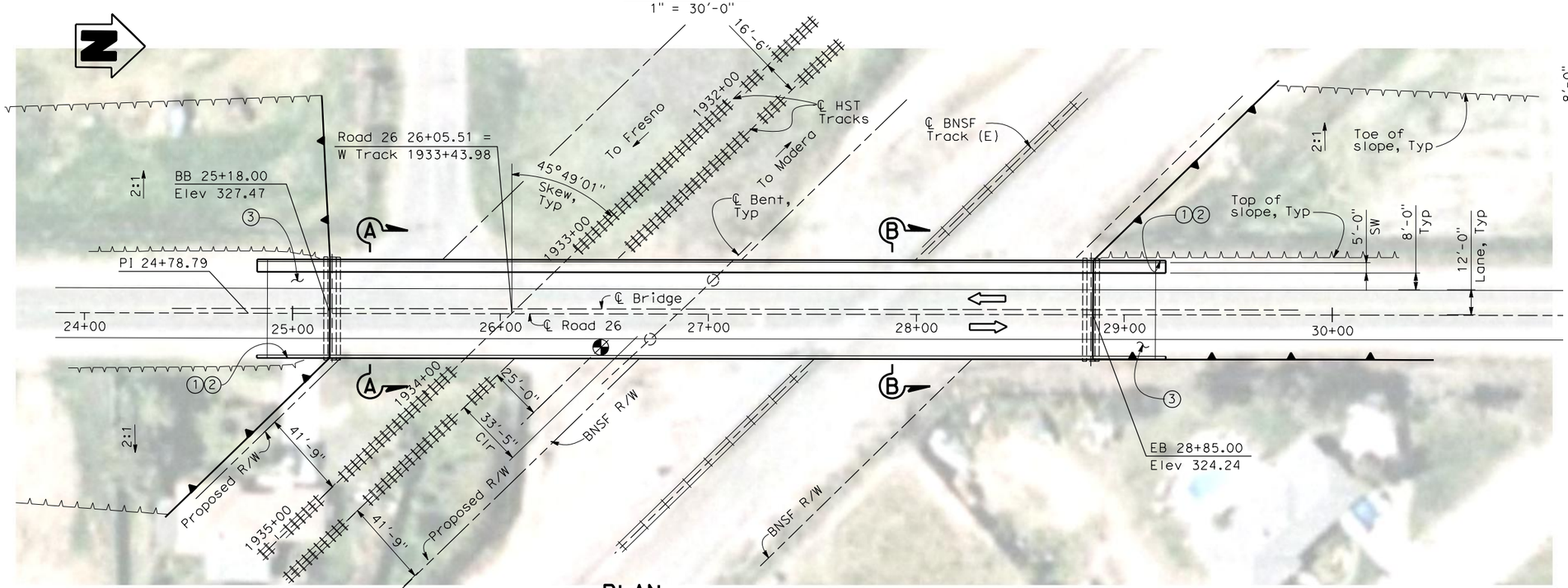
SECTION A-A

1" = 10'-0"



SECTION B-B

1" = 10'-0"



PLAN

1" = 30'-0"

LEGEND:

⇦ Direction of traffic

Point of minimum vertical clearance

Retaining wall

DATE OF ESTIMATE	
BRIDGE REMOVAL	=
STRUCTURE DEPTH	= 7'-6" - 10'-0"
LENGTH	= 367'-0"
WIDTH	= 47'-6"
AREA	= 17,430 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=
TOTAL COST	=

LOCATION 11

30 0 30 60

1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	04/11/12	HL	JR	AB	

DESIGNED BY H. LEE
DRAWN BY E. CISNEROS
CHECKED BY J. RENTERIA
IN CHARGE A. BOONE
DATE 04/11/2012

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

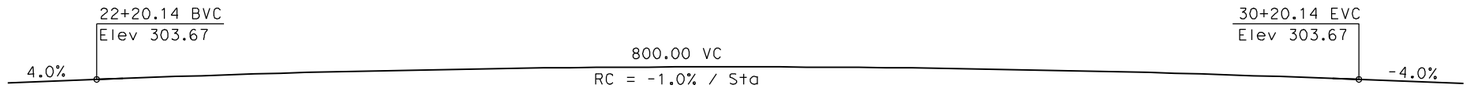
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

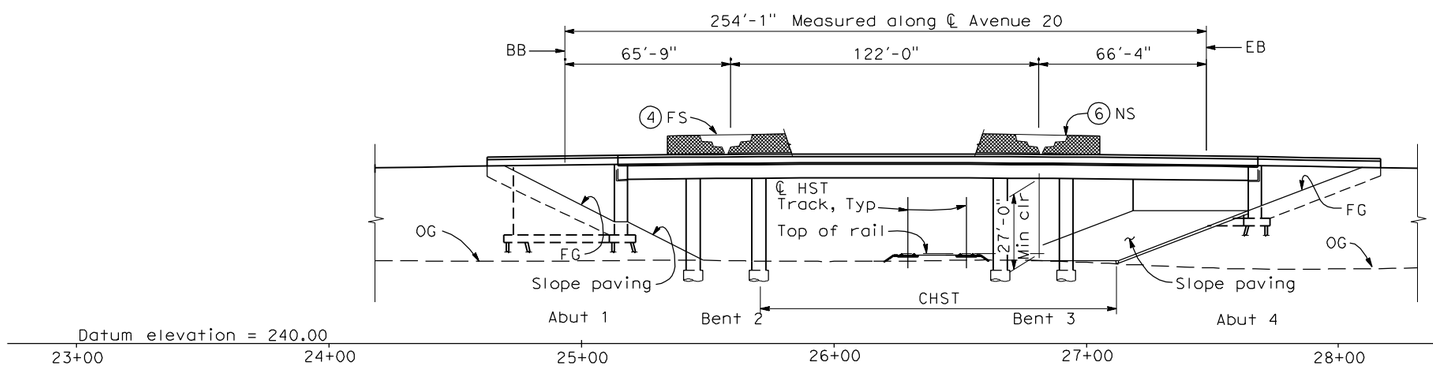
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - HYBRID
AVENUE 21
ROAD 26 OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1011
SCALE As shown
SHEET NO. OF

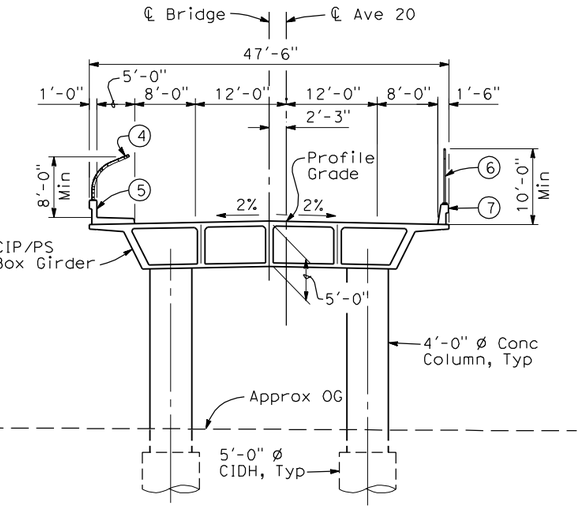
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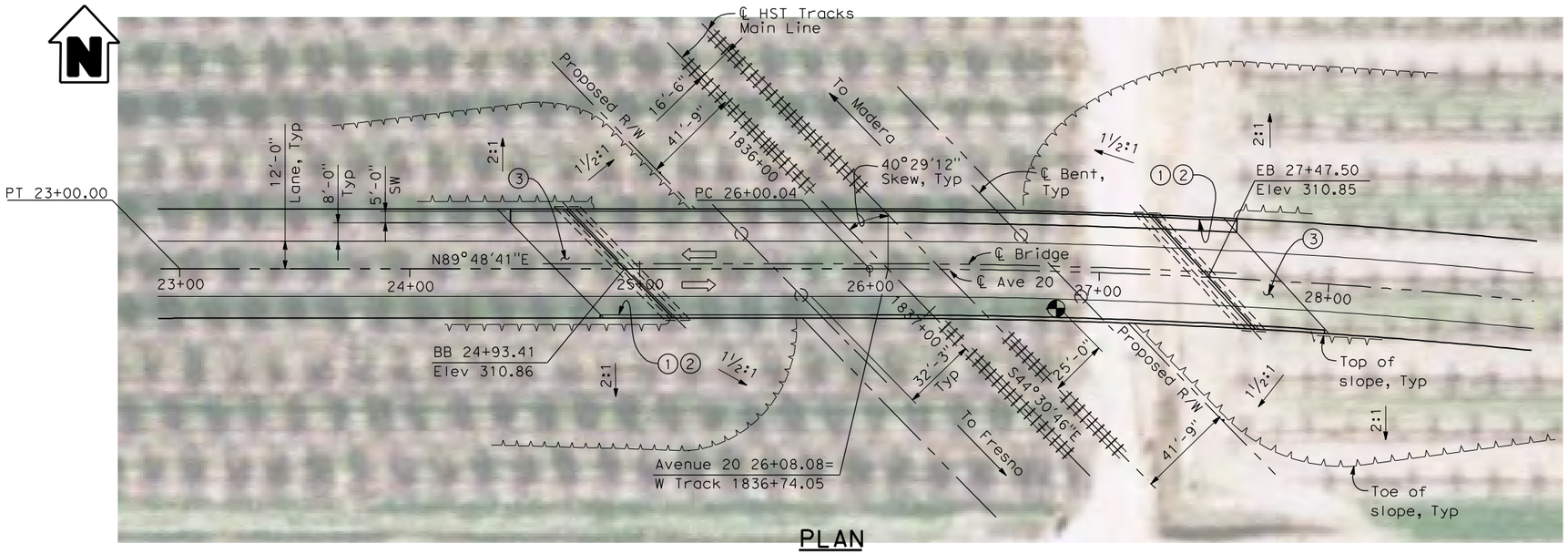
PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



TYPICAL SECTION
1"=10'-0"



PLAN
1" = 30'-0"

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "Avenue 20 OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Existing underground and overhead utilities to be determined.

LEGEND:

⇦ Direction of traffic

Point of minimum vertical clearance
Pt = Petroleum
UG = Underground

Date of Estimate		
Bridge Removal	=	
Structure Depth	=	5'-0"
Length	=	254'-1"
Width	=	47'-6"
Area	=	12,068 ft²
Cost/ □ft including 10% Mobilization & 25% Contingency	=	
Total Cost	=	

LOCATION 32

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY E.CISNEROS
CHECKED BY K. LEE
IN CHARGE A. Boone
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

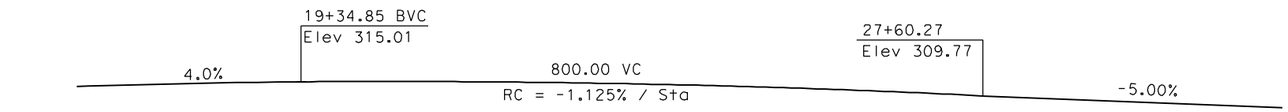
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 24
AVENUE 20 OVERHEAD
PLANNING STUDY

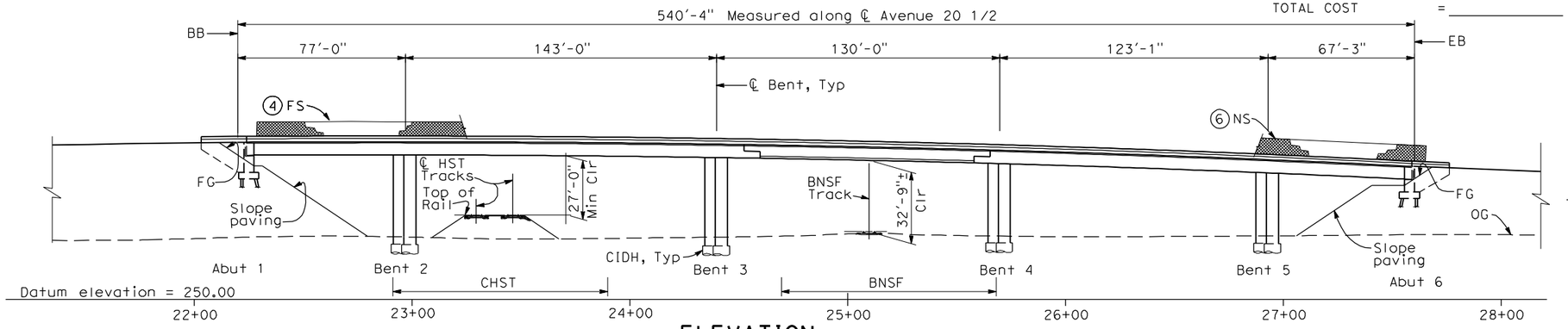
CONTRACT NO. HSR06-007
DRAWING NO. ST1035
SCALE As shown
SHEET NO. OF

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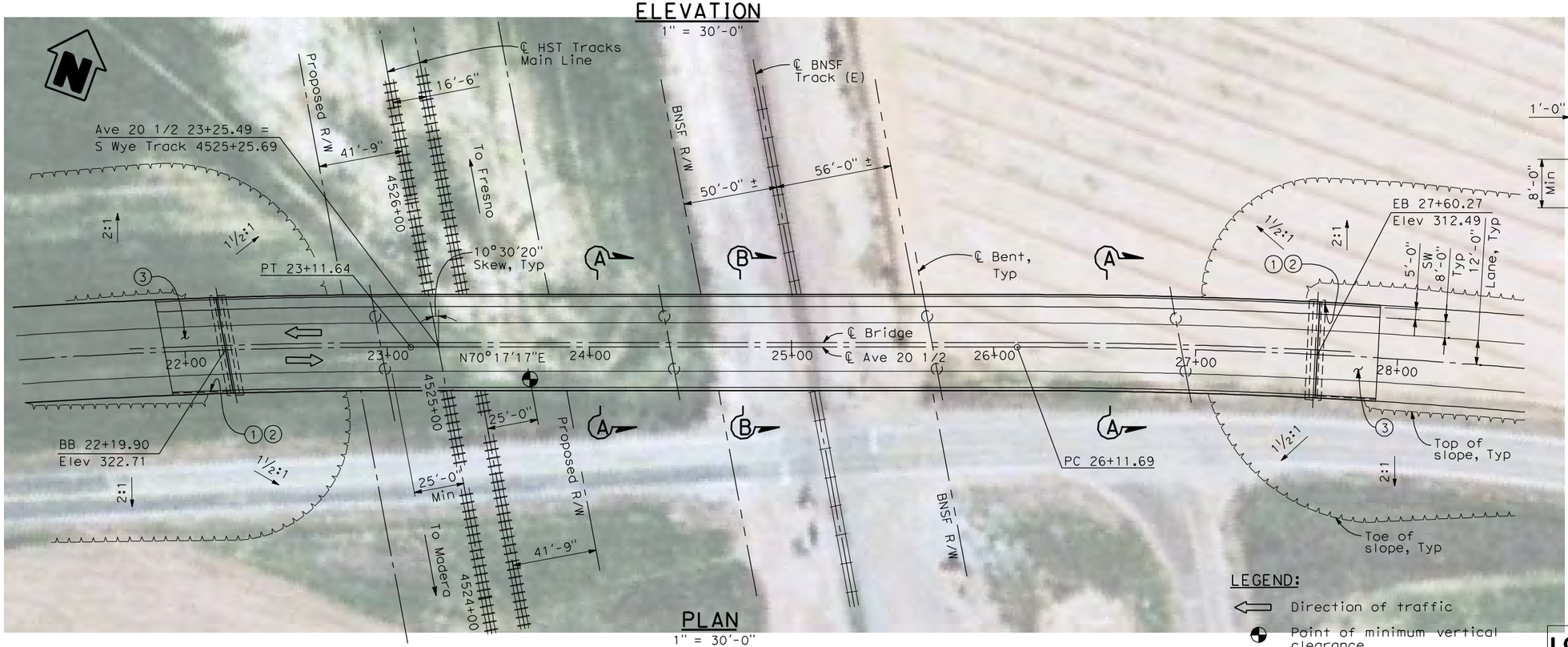


PROFILE GRADE
NTS

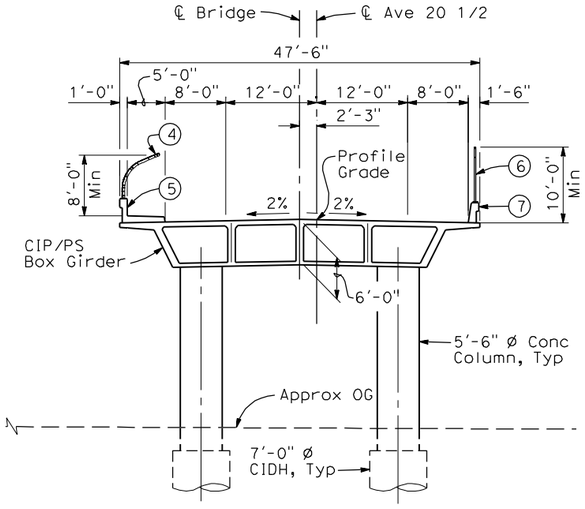
DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	540'-4"
WIDTH	=	47'-6"
AREA	=	25,670 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	



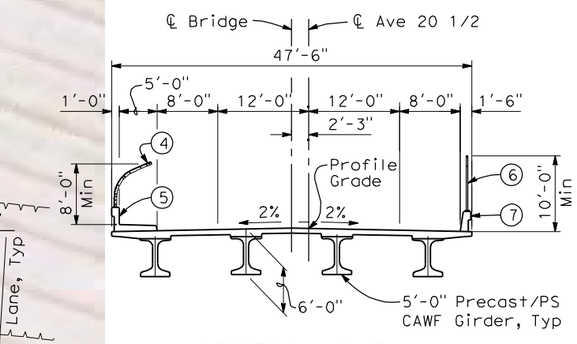
ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"



SECTION A-A
1" = 10'-0"



SECTION B-B
1" = 10'-0"

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "Avenue 20 1/2 OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Existing underground and overhead utilities to be determined.

LEGEND:

- Direction of traffic
- Point of minimum vertical clearance

LOCATION 33

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY E. CISNEROS
CHECKED BY J. RENTERIA
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

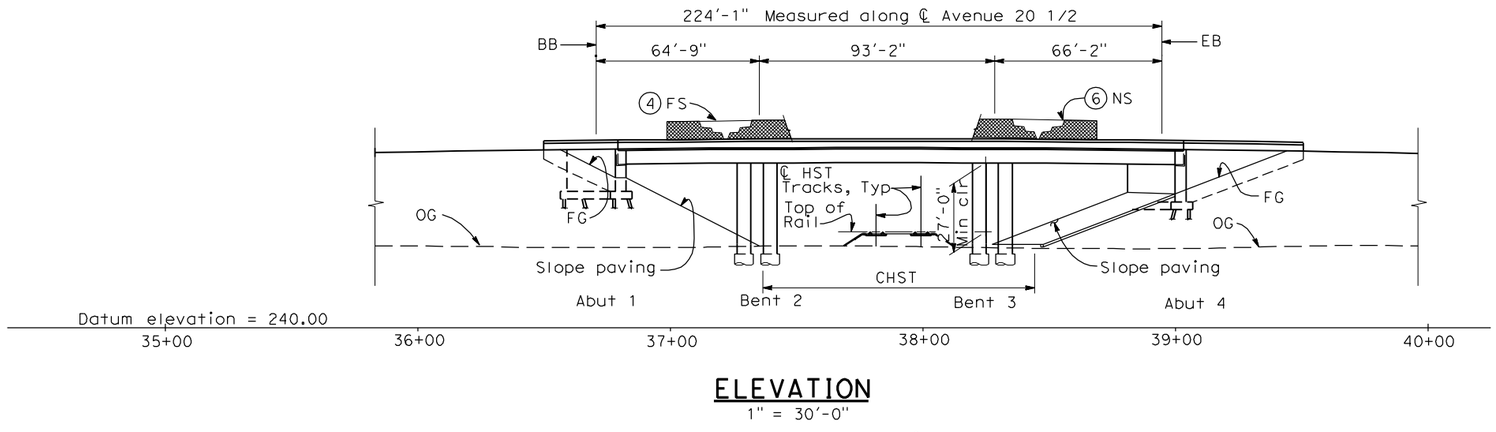
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 24
AVENUE 20 1/2 OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1036
SCALE As shown
SHEET NO. OF

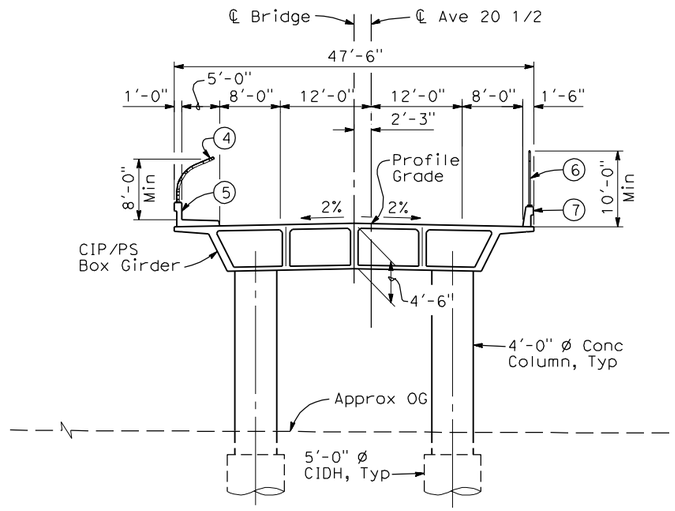
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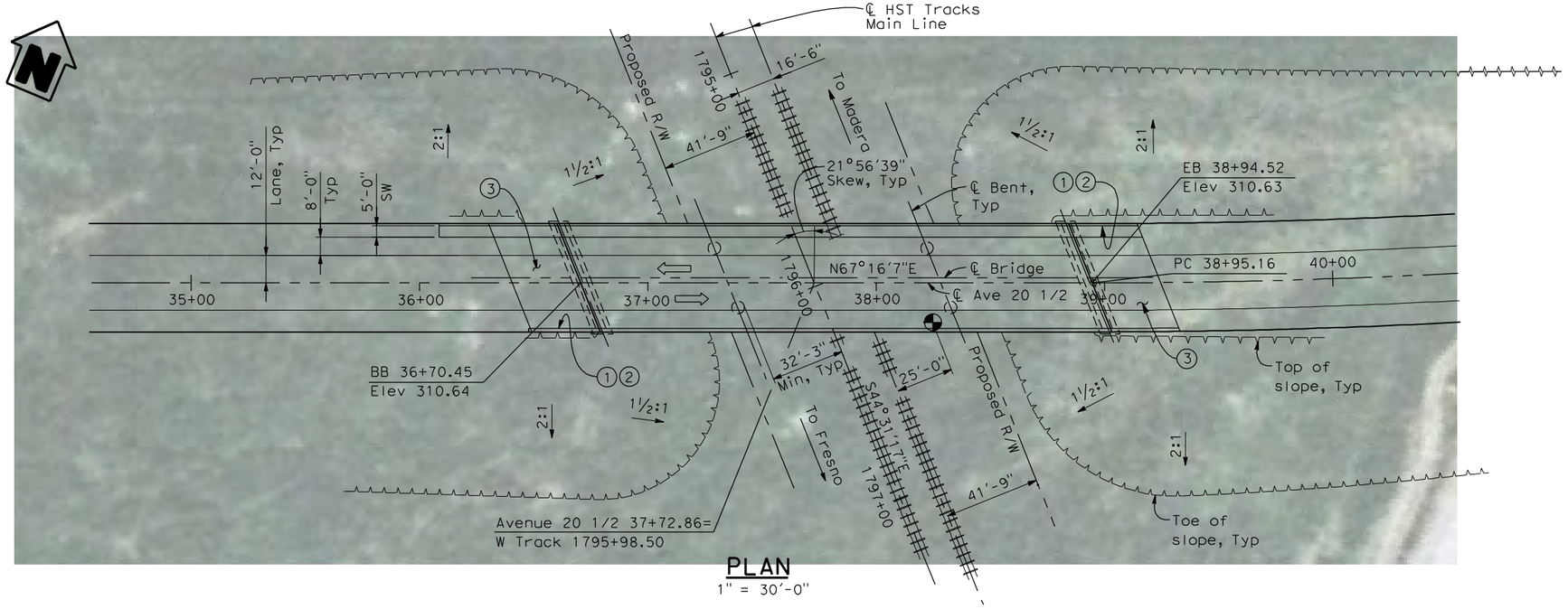
PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



TYPICAL SECTION
1"=10'-0"



PLAN
1" = 30'-0"

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "Ave 20 1/2 OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Existing underground and overhead utilities to be determined.

LEGEND:

⇦ Direction of traffic

Point of minimum vertical clearance
Pt = Petroleum
UG = Underground

Date of Estimate		
Bridge Removal	=	
Structure Depth	=	4'-6"
Length	=	224'-1"
Width	=	47'-6"
Area	=	10,643 ft²
Cost/ □ft including 10% Mobilization & 25% Contingency	=	
Total Cost	=	

LOCATION 33

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY E. CISNEROS
CHECKED BY K. LEE
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

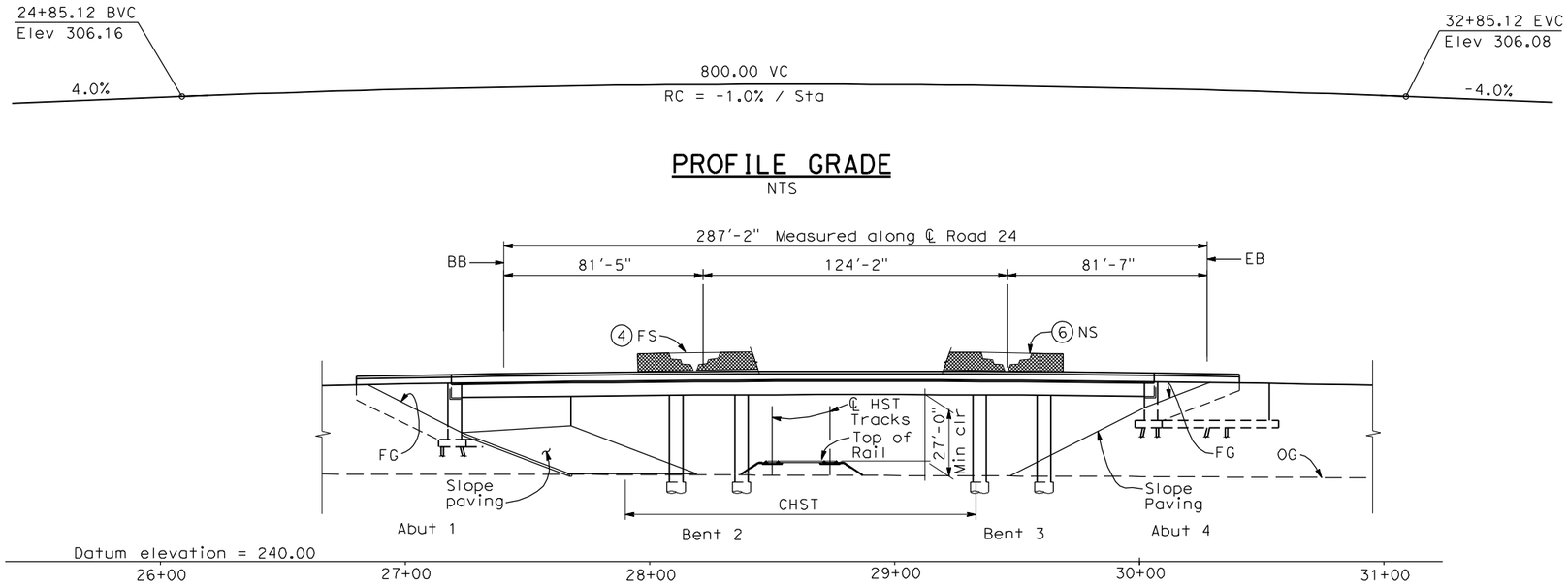
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 24
AVENUE 20 1/2 OVERHEAD
PLANNING STUDY

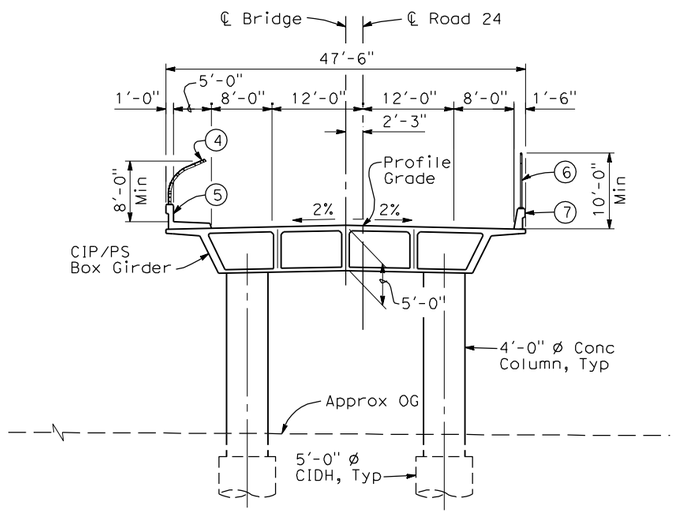
CONTRACT NO. HSR06-007
DRAWING NO. ST1037
SCALE As shown
SHEET NO. OF

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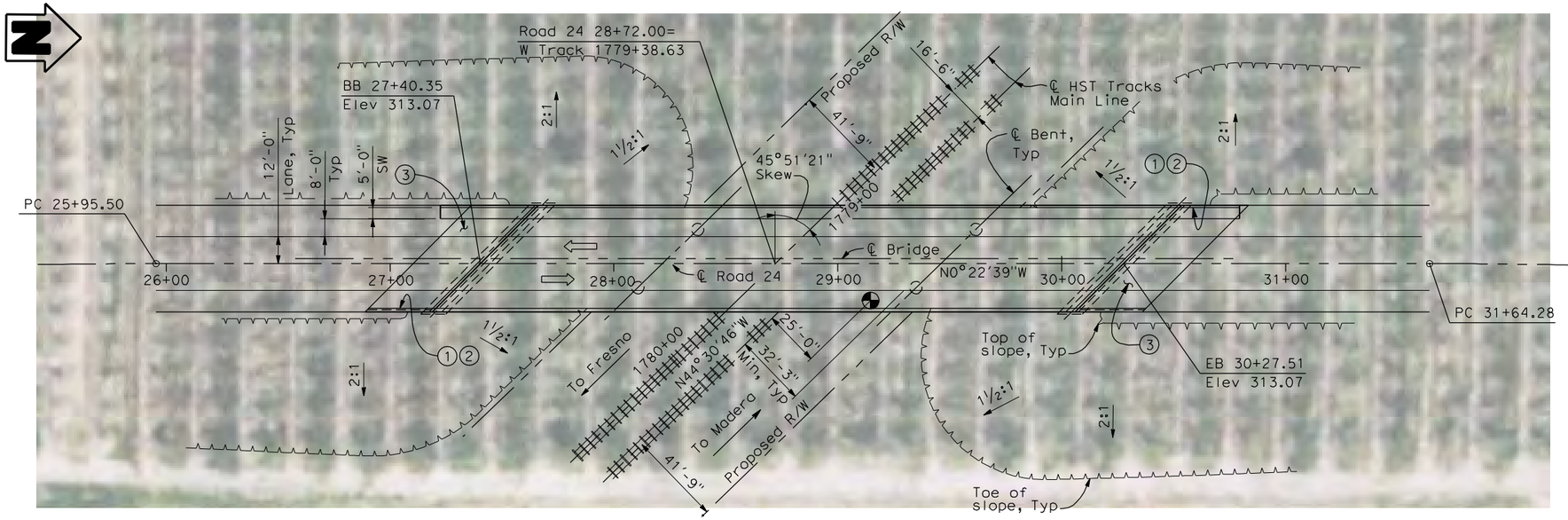


PROFILE GRADE
NTS

ELEVATION
1" = 30'-0"



TYPICAL SECTION
1"=10'-0"



PLAN
1" = 30'-0"

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "Road 24 OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Existing underground and overhead utilities to be determined.

LEGEND:

⇦ Direction of traffic

Point of minimum vertical clearance

Pt = Petroleum
UG = Underground

Date of Estimate		
Bridge Removal	=	
Structure Depth	=	5'-0"
Length	=	258'-2"
Width	=	47'-6"
Area	=	12,261 ft²
Cost/ □ft including 10% Mobilization & 25% Contingency	=	
Total Cost	=	

LOCATION 34

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY E. CISNEROS
CHECKED BY K. LEE
IN CHARGE A. Boone
DATE 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

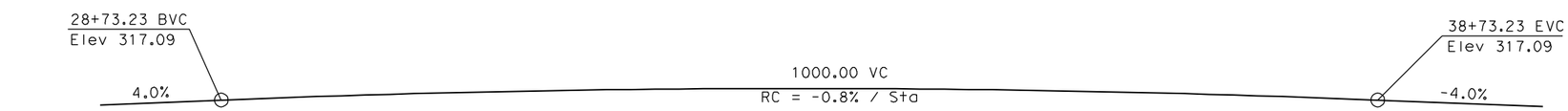
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

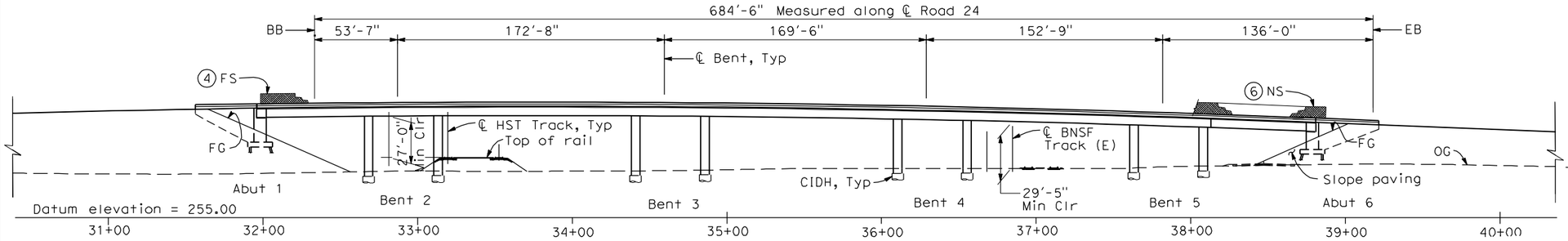
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 24
ROAD 24 OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1038
SCALE As shown
SHEET NO. OF

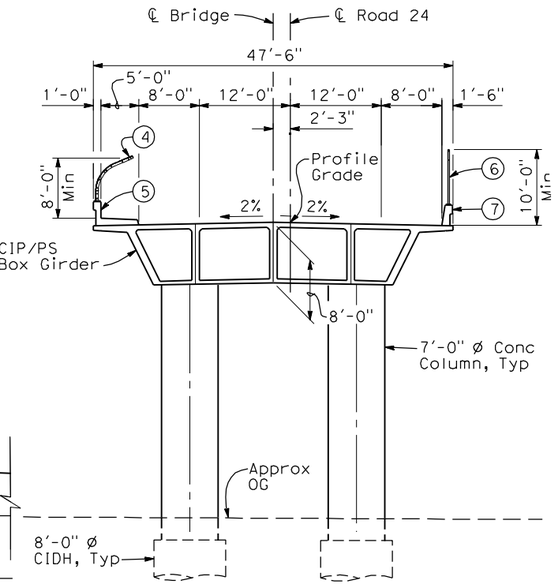
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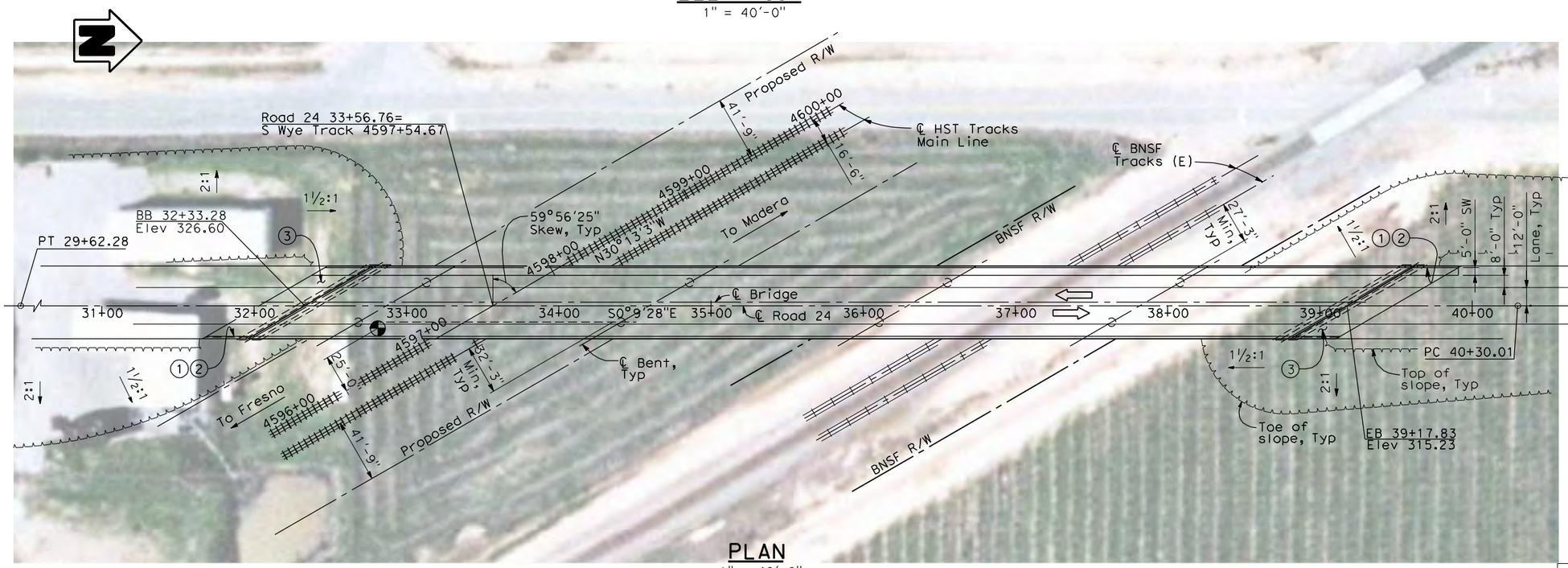
PROFILE GRADE
NTS



ELEVATION
1" = 40'-0"



TYPICAL SECTION
1" = 10'-0"



PLAN
1" = 40'-0"

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "Road 24 OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Existing underground and overhead utilities to be determined.

LEGEND:

- Direction of traffic
- Point of minimum vertical clearance

DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	8'-0"
LENGTH	=	684'-6"
WIDTH	=	47'-6"
AREA	=	32,510 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 34

40 0 40 80
1"=40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY E. CISNEROS
CHECKED BY K. LEE
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

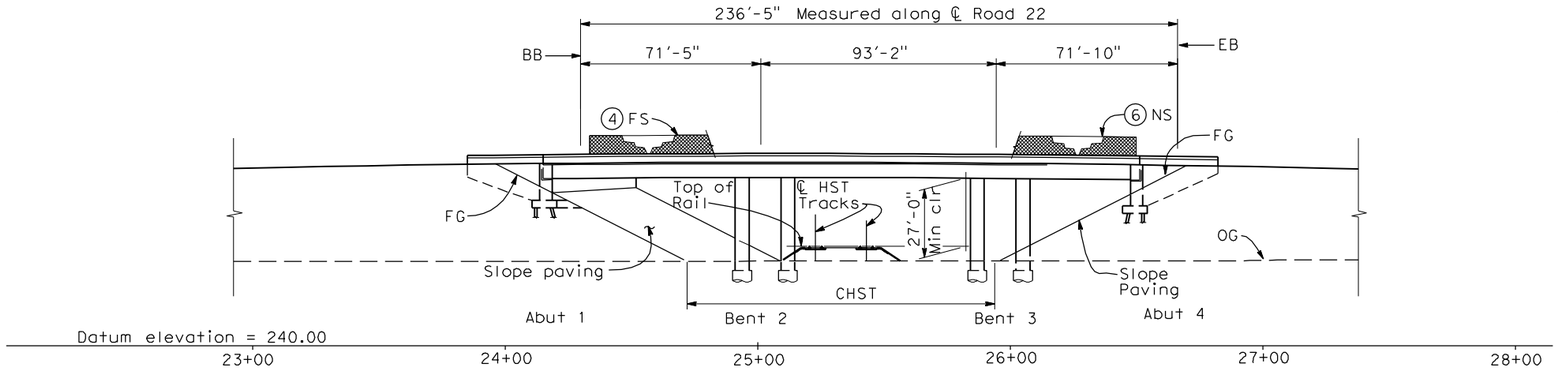
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 24
ROAD 24 OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1039
SCALE As shown
SHEET NO. OF

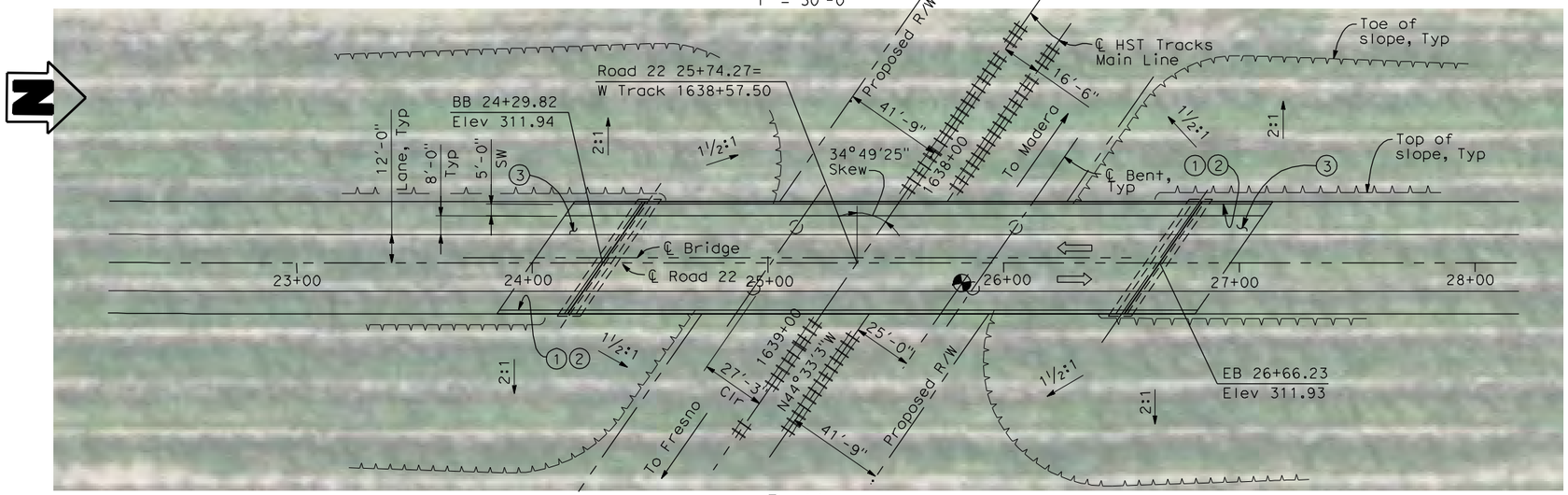
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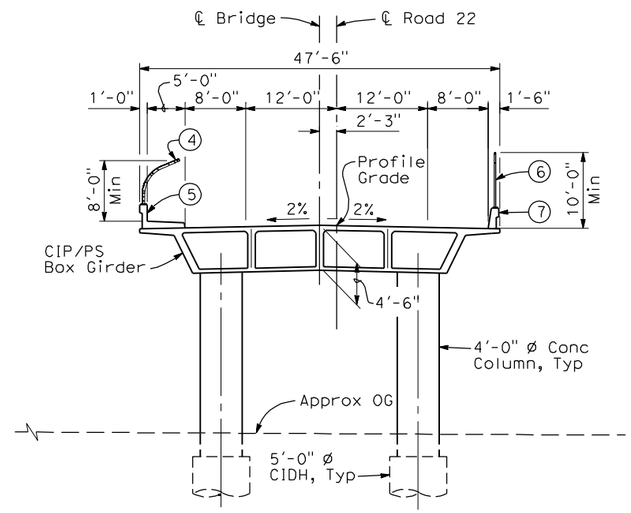
PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"



TYPICAL SECTION
1"=10'-0"

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "Road 22 OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Existing underground and overhead utilities to be determined.

LEGEND:

⇦ Direction of traffic

Point of minimum vertical clearance
Pt = Petroleum
UG = Underground

Date of Estimate		
Bridge Removal	=	
Structure Depth	=	4'-6"
Length	=	236'-5"
Width	=	47'-6"
Area	=	11,230 ft²
Cost/ □ft including 10% Mobilization & 25% Contingency	=	
Total Cost	=	

LOCATION 35

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY E. CISNEROS
CHECKED BY K. LEE
IN CHARGE A. Boone
DATE 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

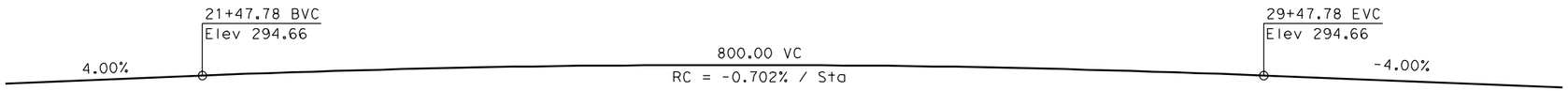
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

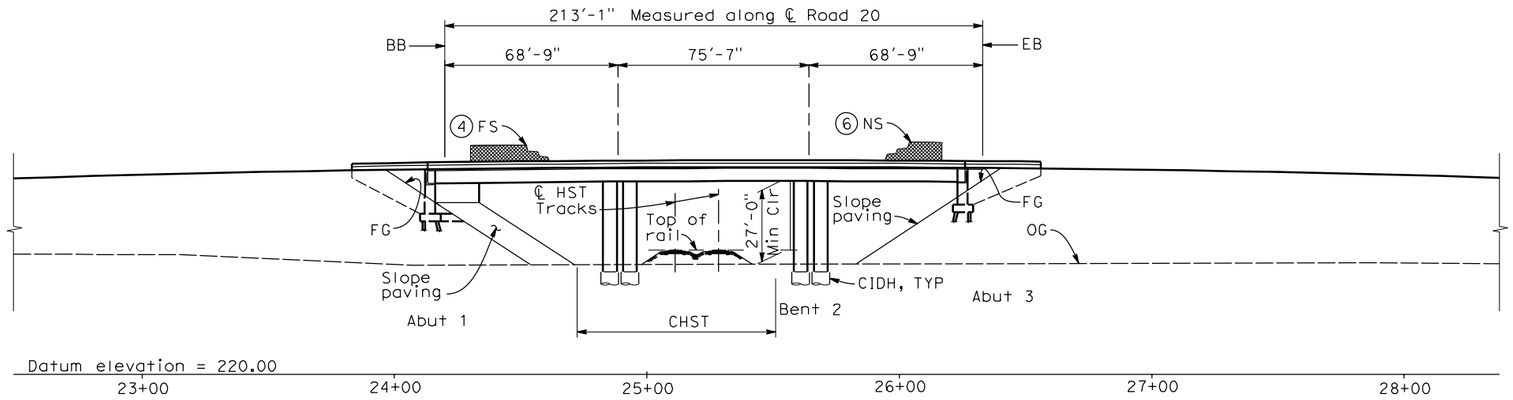
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 24
ROAD 22 OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1040
SCALE As shown
SHEET NO. OF

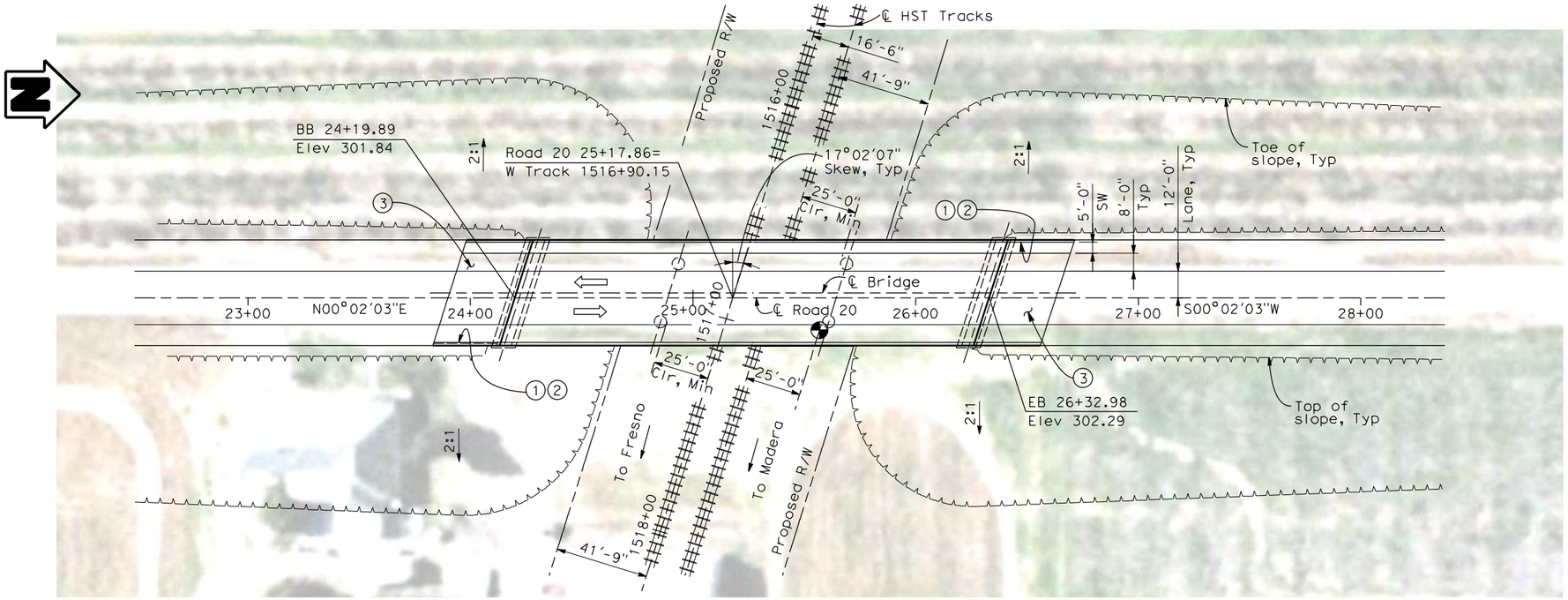
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cisnerose



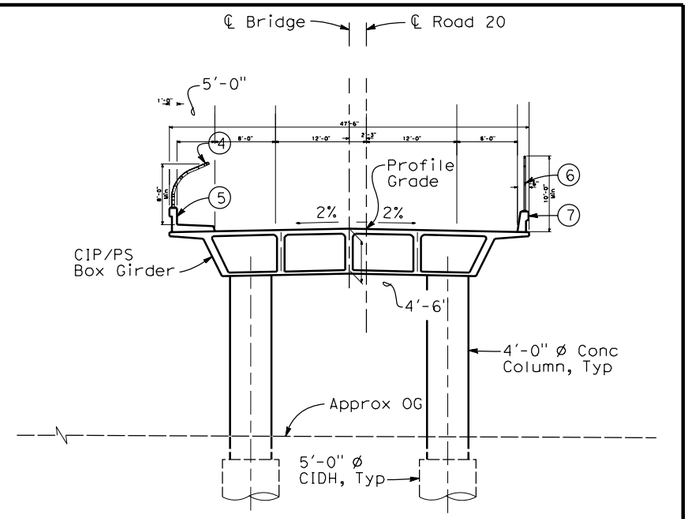
PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"



TYPICAL SECTION
1"=10'-0"

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "Road 20 OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Existing underground and overhead utilities to be determined.

LEGEND:

⇦ Direction of traffic

⊕ Point of minimum vertical clearance

Date of Estimate		
Bridge Removal	=	
Structure Depth	=	6'-0"
Length	=	213'-1"
Width	=	47'-6"
Area	=	21,100 ft²
Cost/ □ft including 10% Mobilization & 25% Contingency	=	
Total Cost	=	

LOCATION 36.1

REV	DATE	BY	CHK	APP	DESCRIPTION
1	01/13/12	HL	JR	AB	

DESIGNED BY H. LEE
DRAWN BY E. CISNEROS
CHECKED BY J.RENTERIA
IN CHARGE A. BOONE
DATE 01/13/2012

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

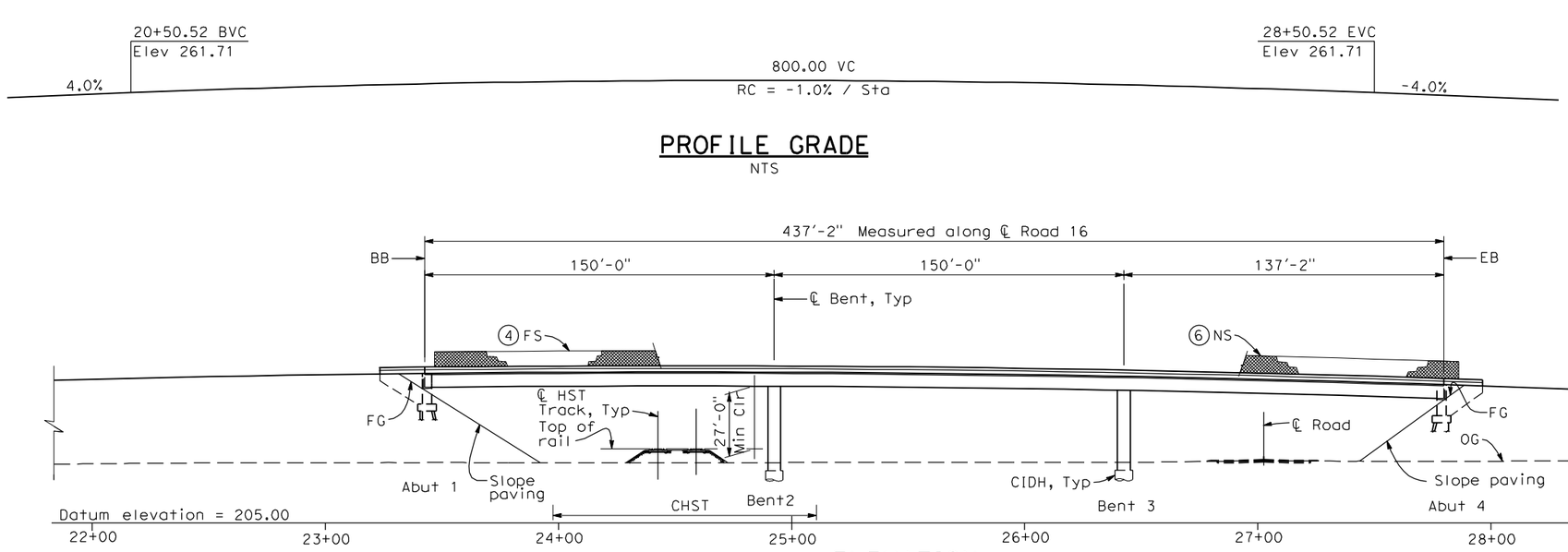
AECOM Technical Services, Inc.
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CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 24
ROAD 20 OVERHEAD
PLANNING STUDY

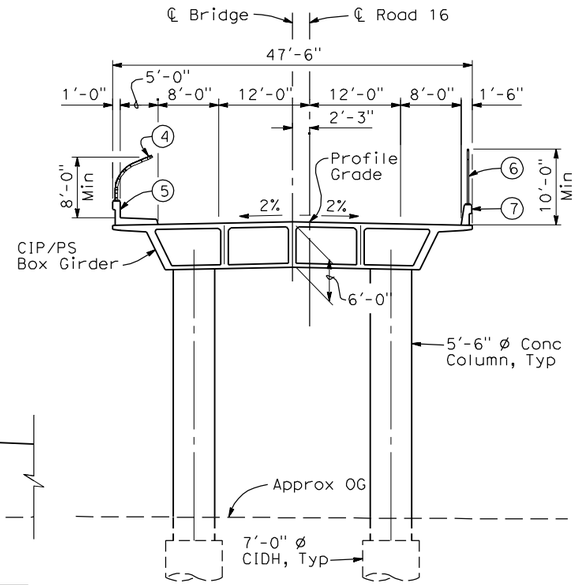
CONTRACT NO. HSR06-007
DRAWING NO. ST1041A
SCALE As shown
SHEET NO. OF

cisnerose 3/31/2012 11:57:48 AM \\ussclfp001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\CADD\Struct\Sheet\15%_Grade Structures_Revisions\W-ML-ST-OH_Road 20.dgn

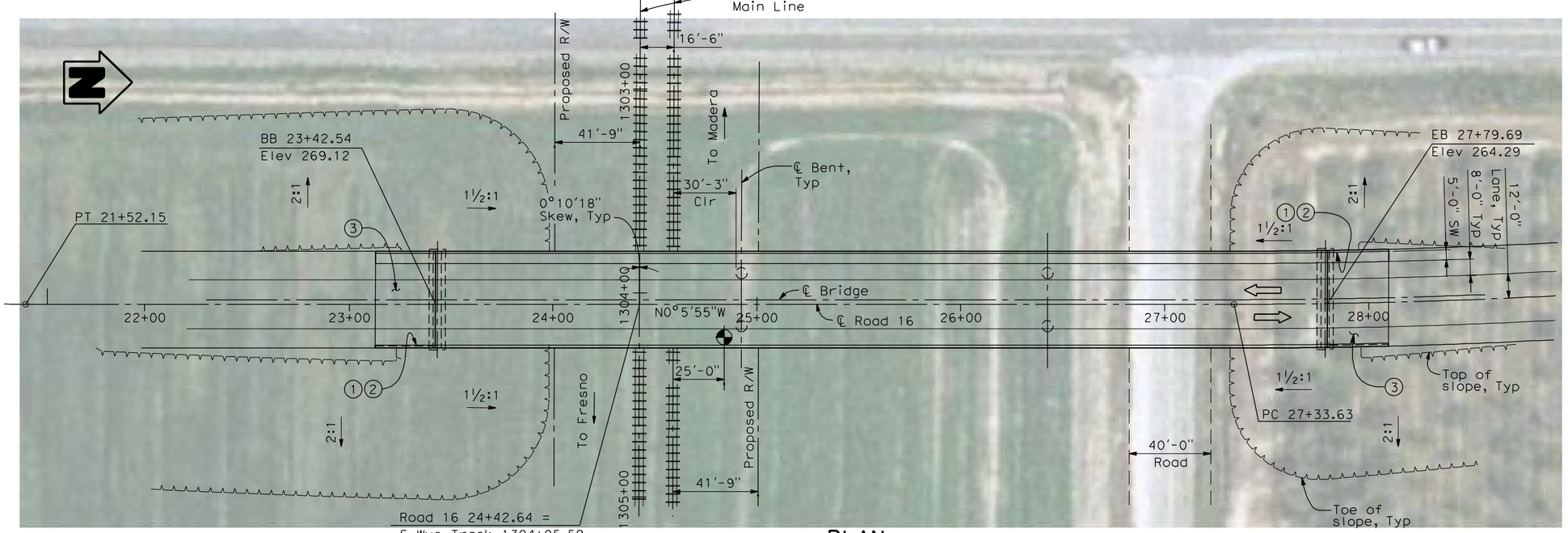


PROFILE GRADE
NTS

ELEVATION
1" = 30'-0"



TYPICAL SECTION
1" = 10'-0"



PLAN
1" = 30'-0"

NOTES:
1. Paint "Bridge No. XX-XX"
2. Paint "Road 16 OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Existing underground and overhead utilities to be determined.

LEGEND:
- Direction of traffic
- Point of minimum vertical clearance

DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	437'-2"
WIDTH	=	47'-6"
AREA	=	20,770 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 37

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY E. CISNEROS
CHECKED BY K. LEE
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

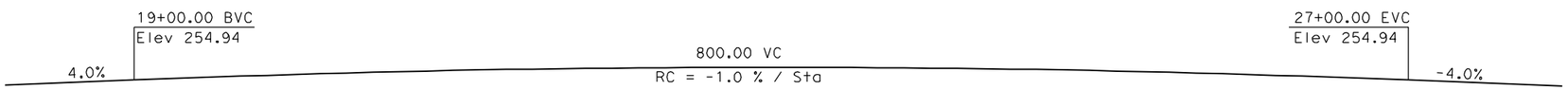
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

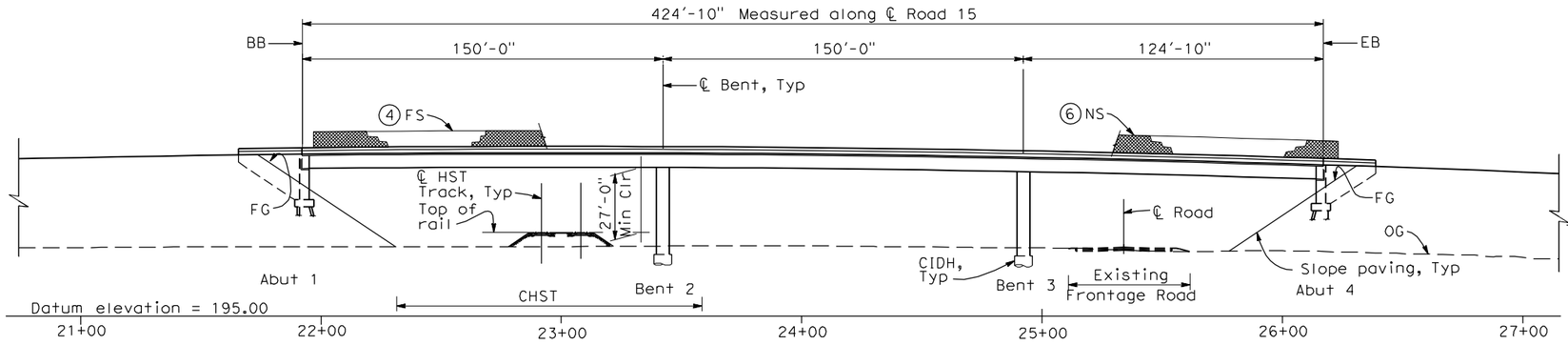
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 24
ROAD 16 OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1042
SCALE As shown
SHEET NO. OF

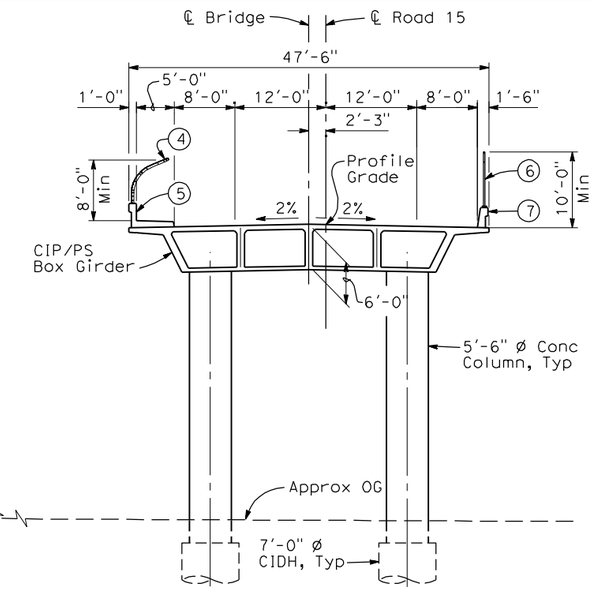
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cisnerose



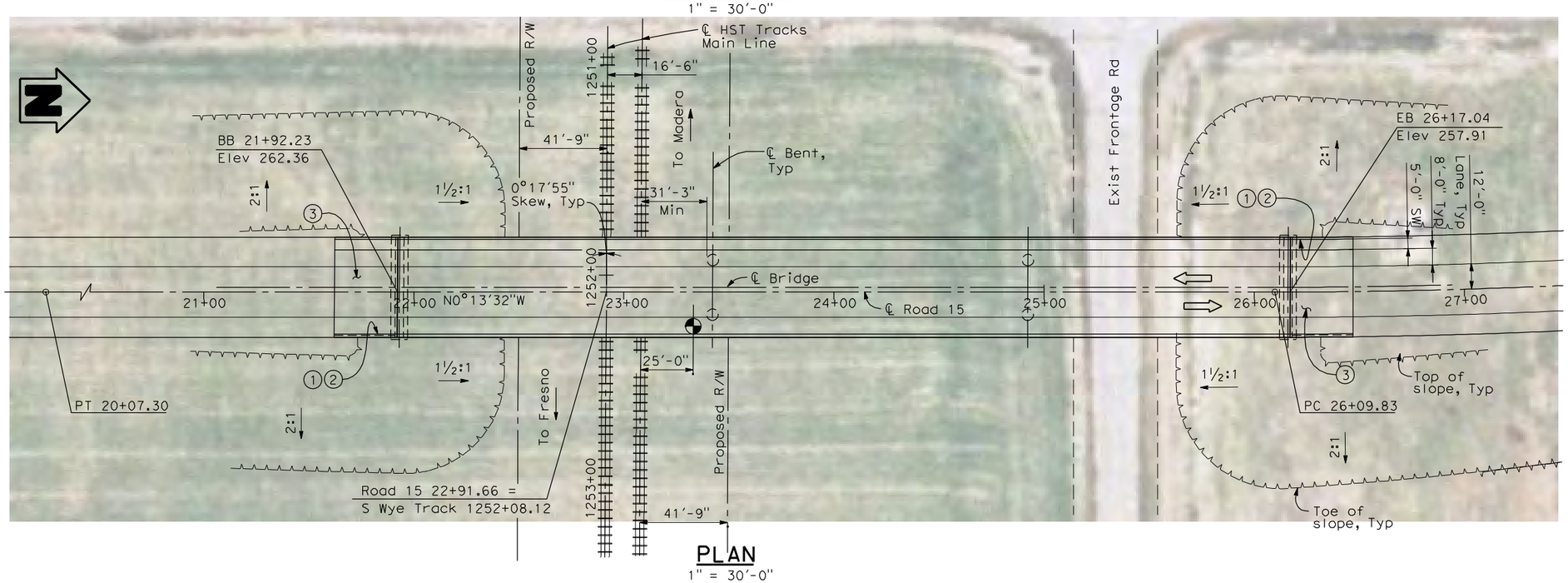
PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



TYPICAL SECTION
1" = 10'-0"



PLAN
1" = 30'-0"

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "Road 15 OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Existing underground and overhead utilities to be determined.

LEGEND:

⇦ Direction of traffic

Point of minimum vertical clearance

DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	424'-10"
WIDTH	=	47'-6"
AREA	=	20,180 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 38

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY E. CISNEROS
CHECKED BY K. LEE
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION

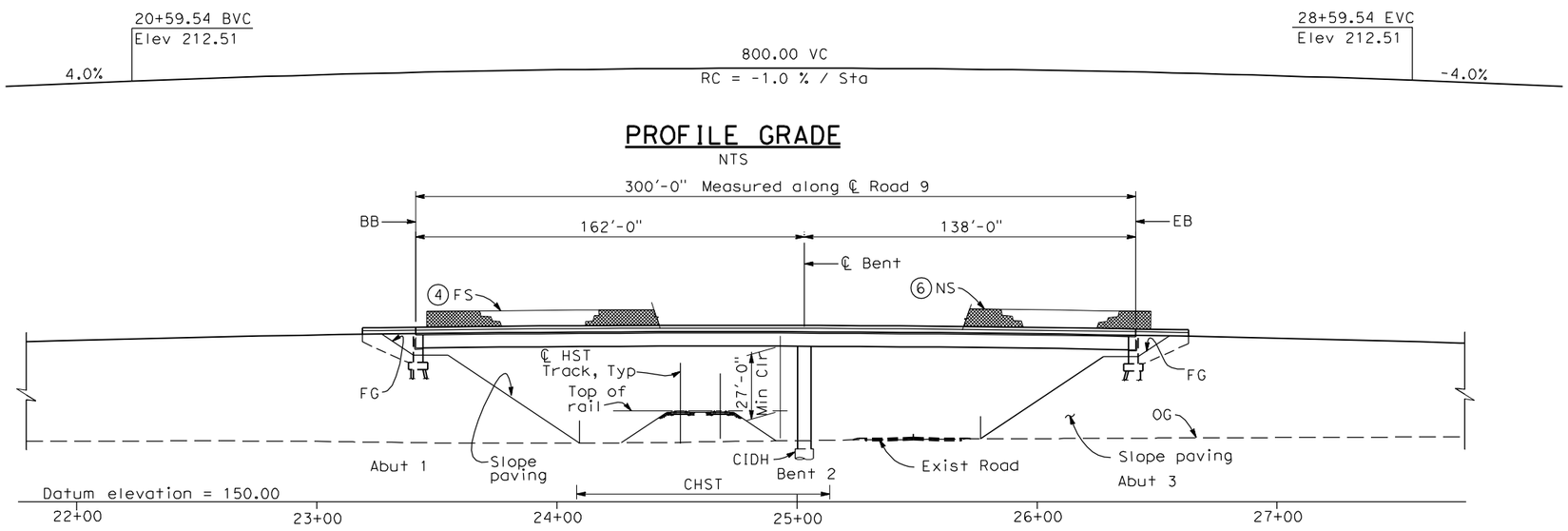
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 24
ROAD 15 OVERHEAD
PLANNING STUDY

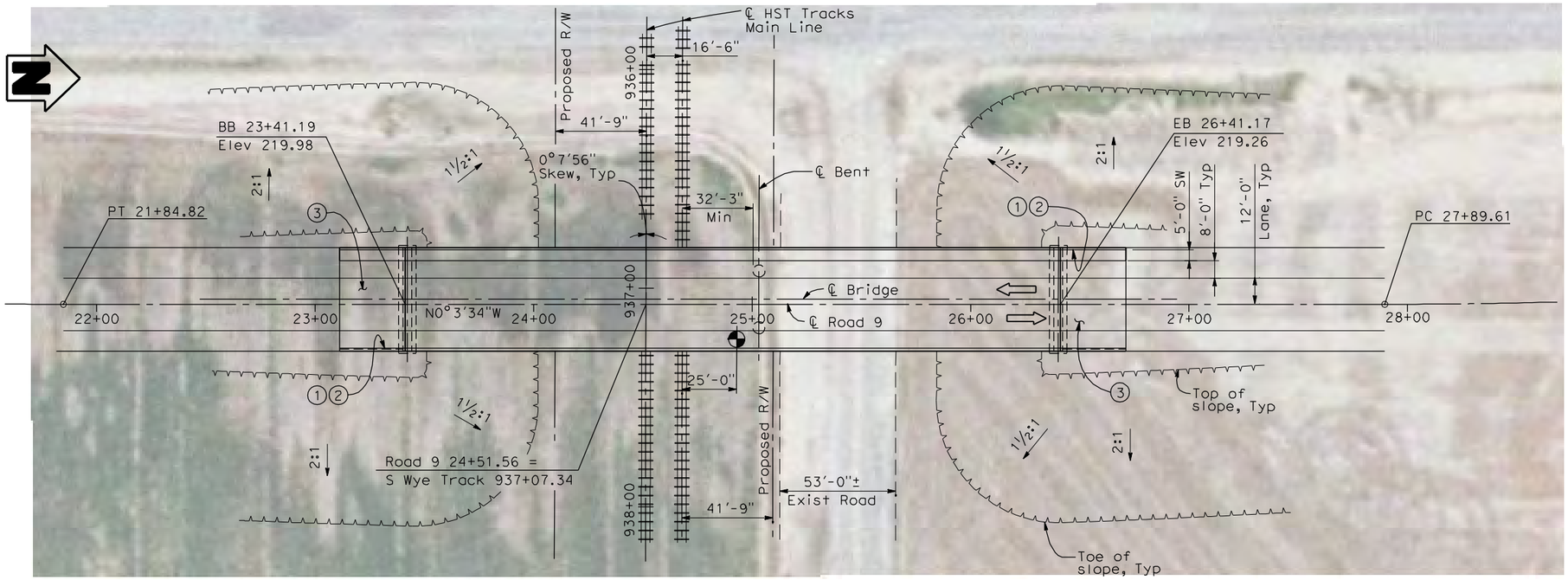
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DRAWING NO. ST1043
SCALE As shown
SHEET NO. OF

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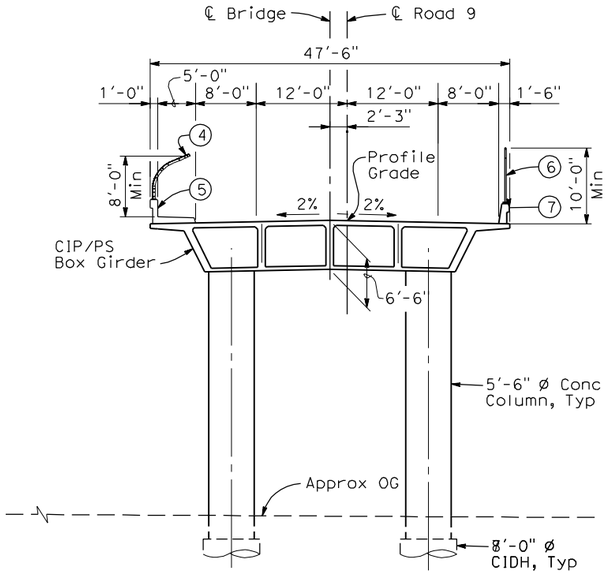


PROFILE GRADE
NTS

ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"



TYPICAL SECTION
1" = 10'-0"

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "Road 9 OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Existing underground and overhead utilities to be determined.

LEGEND:

⇦ Direction of traffic

◒ Point of minimum vertical clearance

DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-6"
LENGTH	=	300'-0"
WIDTH	=	47'-6"
AREA	=	14,250 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 42

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY E. CISNEROS
CHECKED BY K. LEE
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

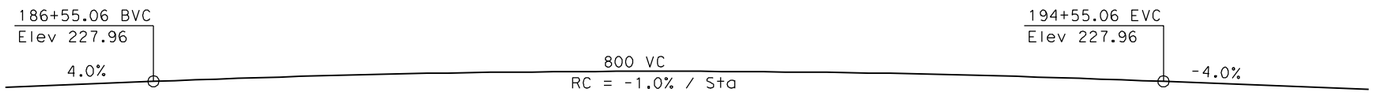
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

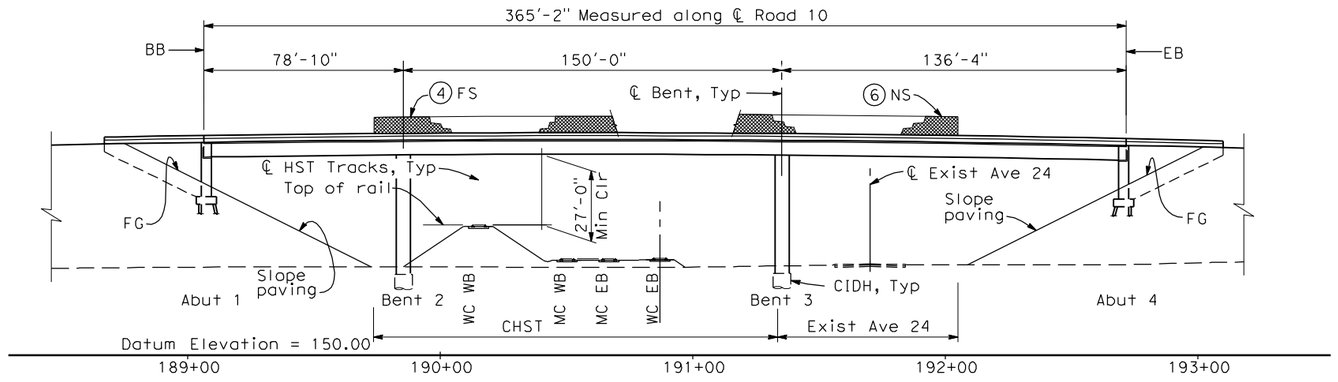
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 24
ROAD 9 OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1047
SCALE As shown
SHEET NO. OF

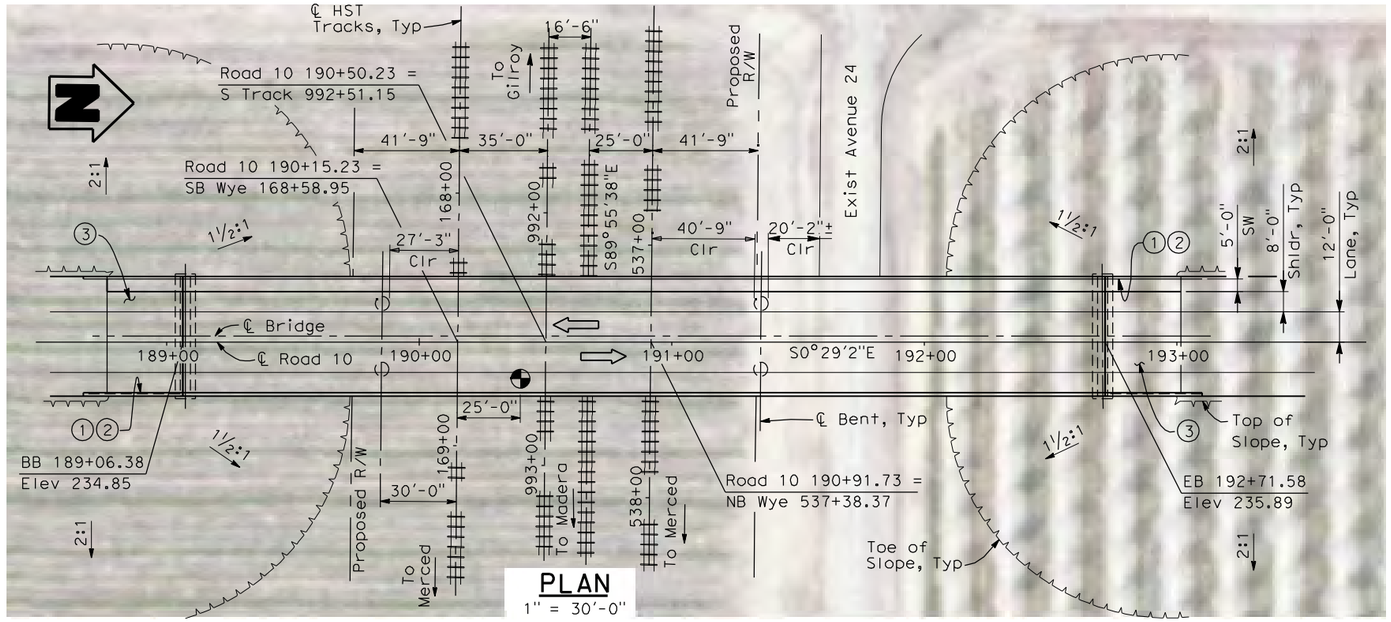
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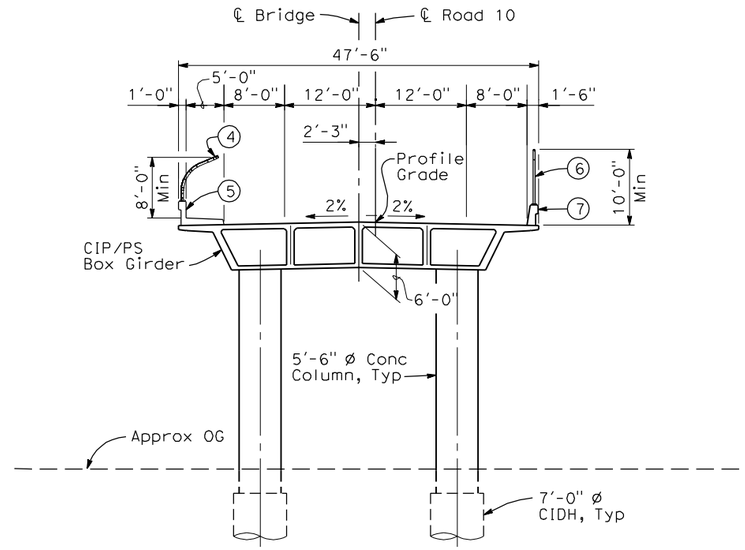
PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"



TYPICAL SECTION
1" = 10'-0"

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "Road 10 OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Existing underground and overhead utilities to be determined.

LEGEND/ABBREVIATIONS:

⇦ Direction of traffic

Point of minimum vertical clearance

MC = Merced Connection
WC = Wye Connection

DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	365'-2"
WIDTH	=	47'-6"
AREA	=	17,347 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 41

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY P. ARIGO
CHECKED BY T. BARNARD
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

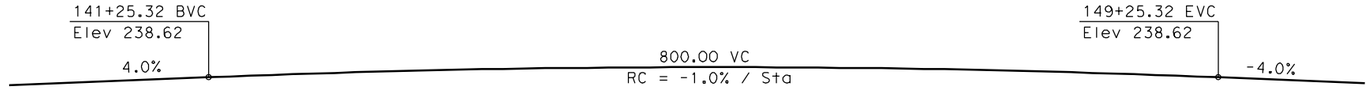
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

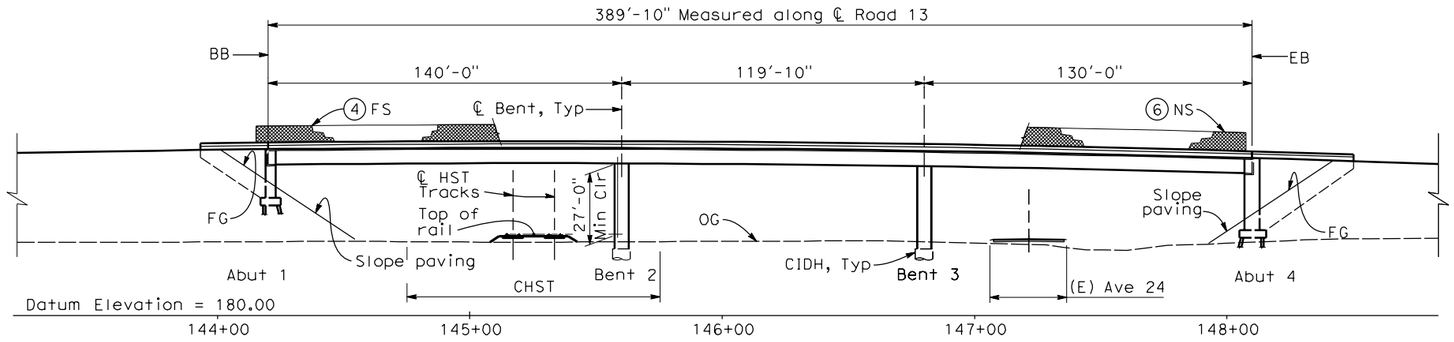
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
HYBRID MAIN LINE/WYE CONNECTION
AVENUE 24
ROAD 10 OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1160
SCALE As shown
SHEET NO. OF

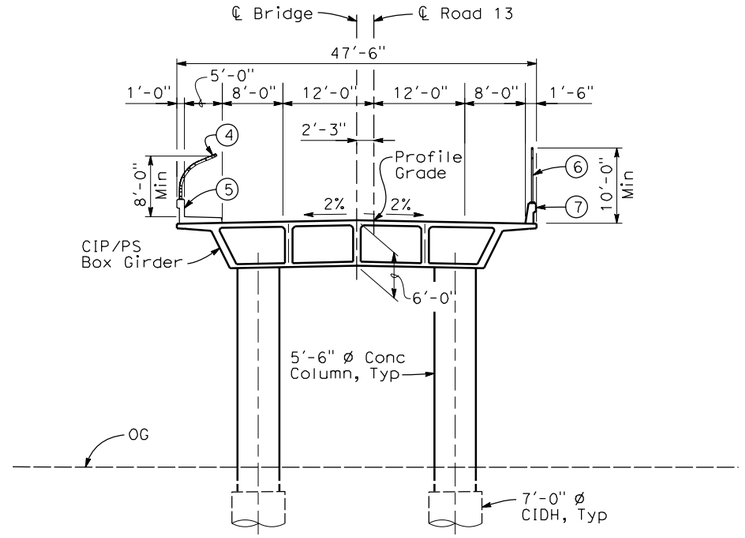
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cisnerose



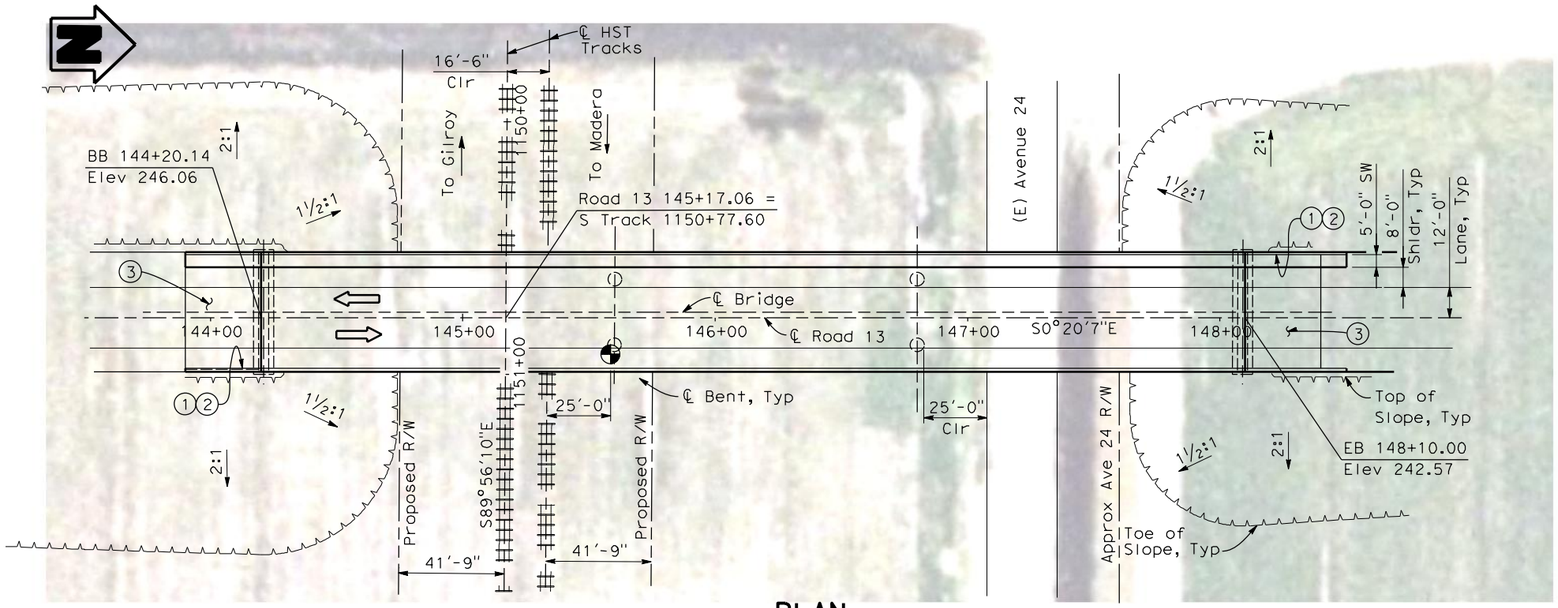
PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



TYPICAL SECTION
1" = 10'-0"



PLAN
1" = 30'-0"

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "Road 13 OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Existing underground and overhead utilities to be determined.

LEGEND:

- Direction of traffic
- Point of minimum vertical clearance

DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	389'-10"
WIDTH	=	47'-6"
AREA	=	18,520 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 40

REV	DATE	BY	CHK	APP	DESCRIPTION
1	01/13/12	HL	JR	AB	

DESIGNED BY H. LEE
DRAWN BY E. CISNEROS
CHECKED BY T. BARNARD
IN CHARGE A. BOONE
DATE 01/13/2012

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

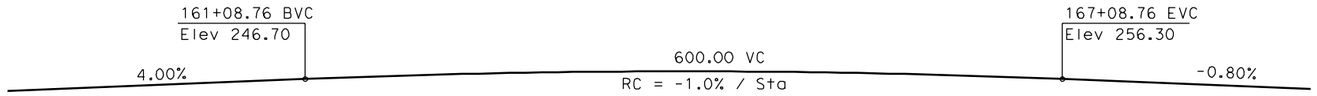
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

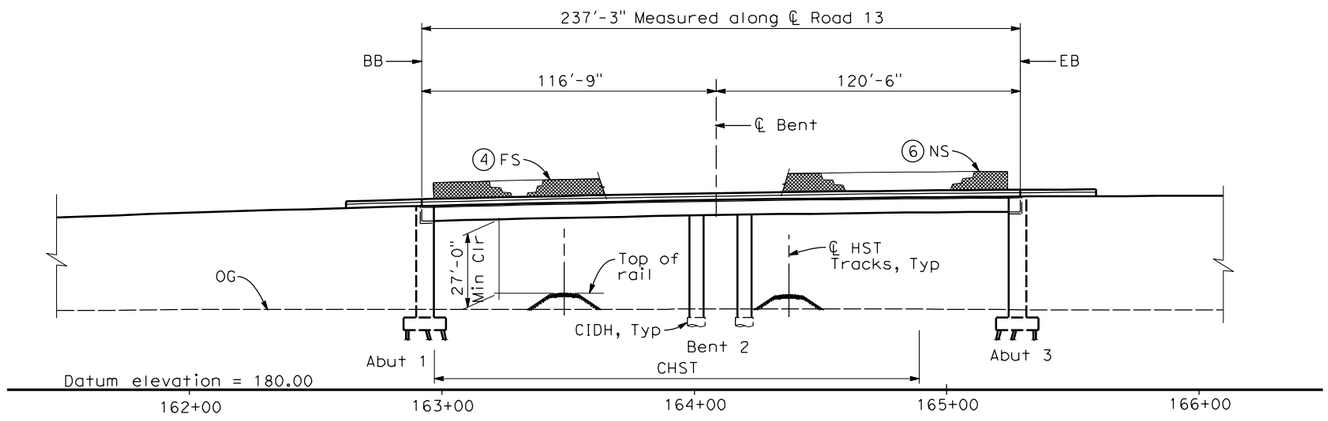
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE - HYBRID
AVENUE 24
ROAD 13 OVERHEAD
PLANNING STUDY - SHEET 1 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. ST1121
SCALE As shown
SHEET NO. OF

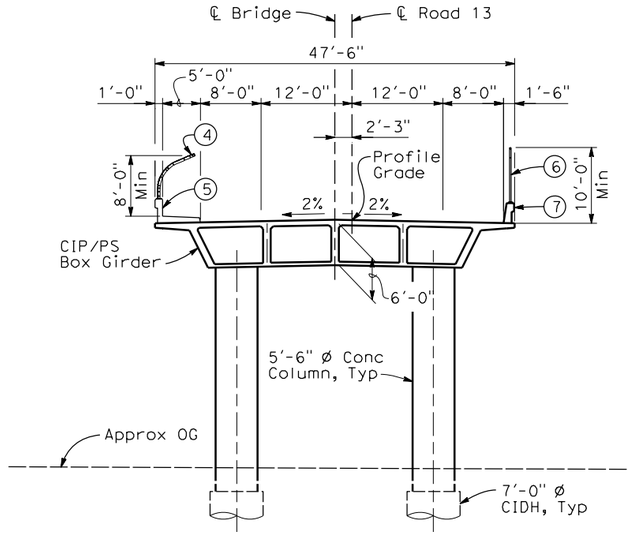
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cisnerose



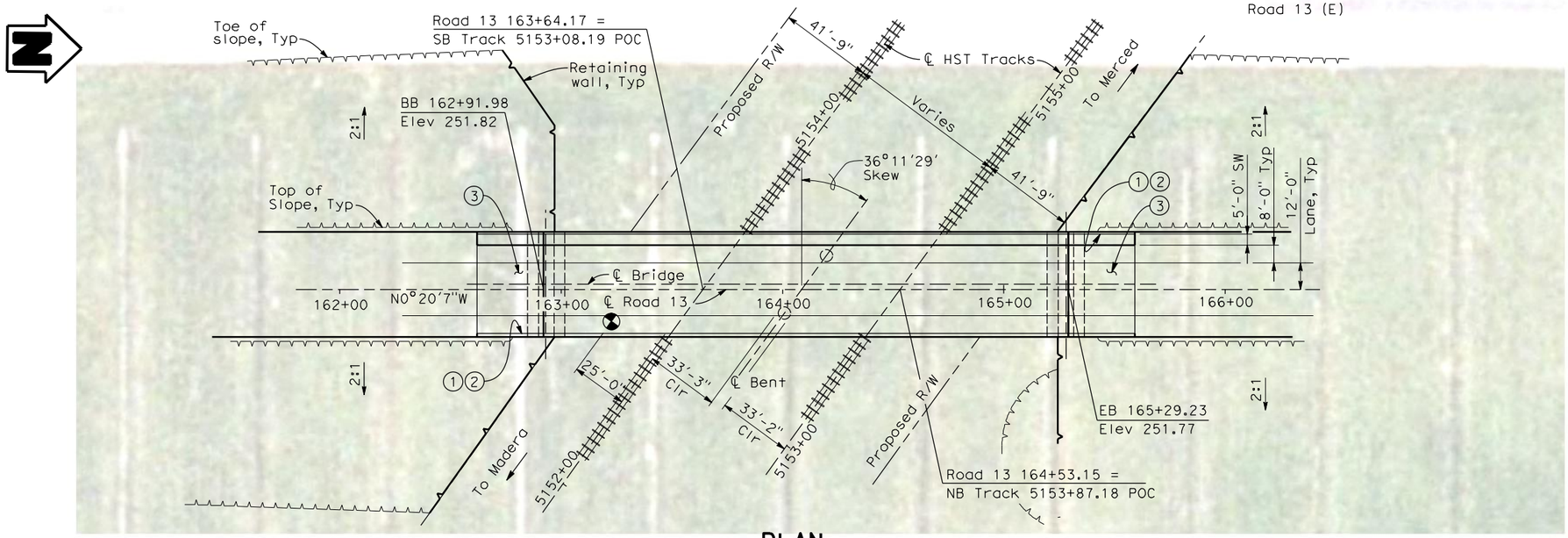
PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



TYPICAL SECTION
1" = 10'-0"



PLAN
1" = 30'-0"

NOTES:

1. Paint "Bridge No. WW-XX"
2. Paint "Road 13 OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Existing underground and overhead utilities to be determined.

LEGEND:

⇦ Direction of traffic

◓ Point of minimum vertical clearance

DATE OF ESTIMATE	
BRIDGE REMOVAL	=
STRUCTURE DEPTH	= 6'-0"
LENGTH	= 237'-3"
WIDTH	= 47'-6"
AREA	= 11,270 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=
TOTAL COST	=

LOCATION 40

REV	DATE	BY	CHK	APP	DESCRIPTION
1	01/13/12	HL	JR	AB	

DESIGNED BY H. LEE
DRAWN BY E. CISNEROS
CHECKED BY K. LEE
IN CHARGE A. BOONE
DATE 01/13/2012

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

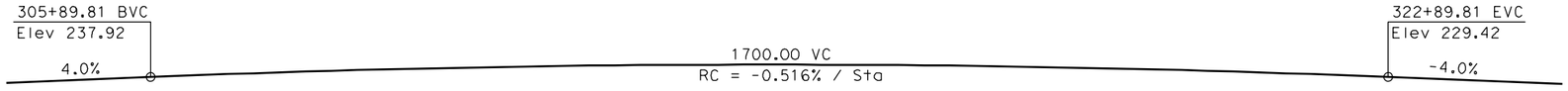
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

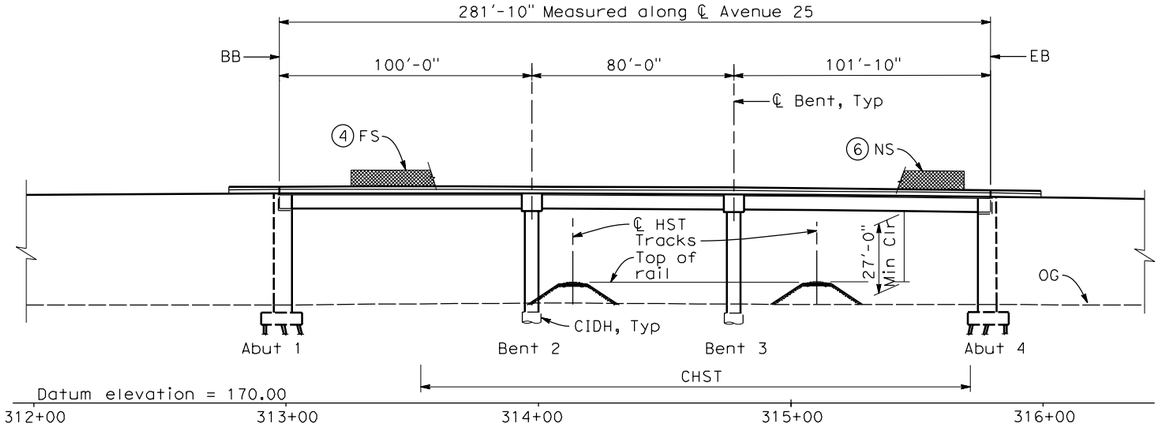
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MERCED CONNECTION - HYBRID
AVENUE 24
ROAD 13 OVERHEAD
PLANNING STUDY - SHEET 2 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. ST1161
SCALE As shown
SHEET NO. OF

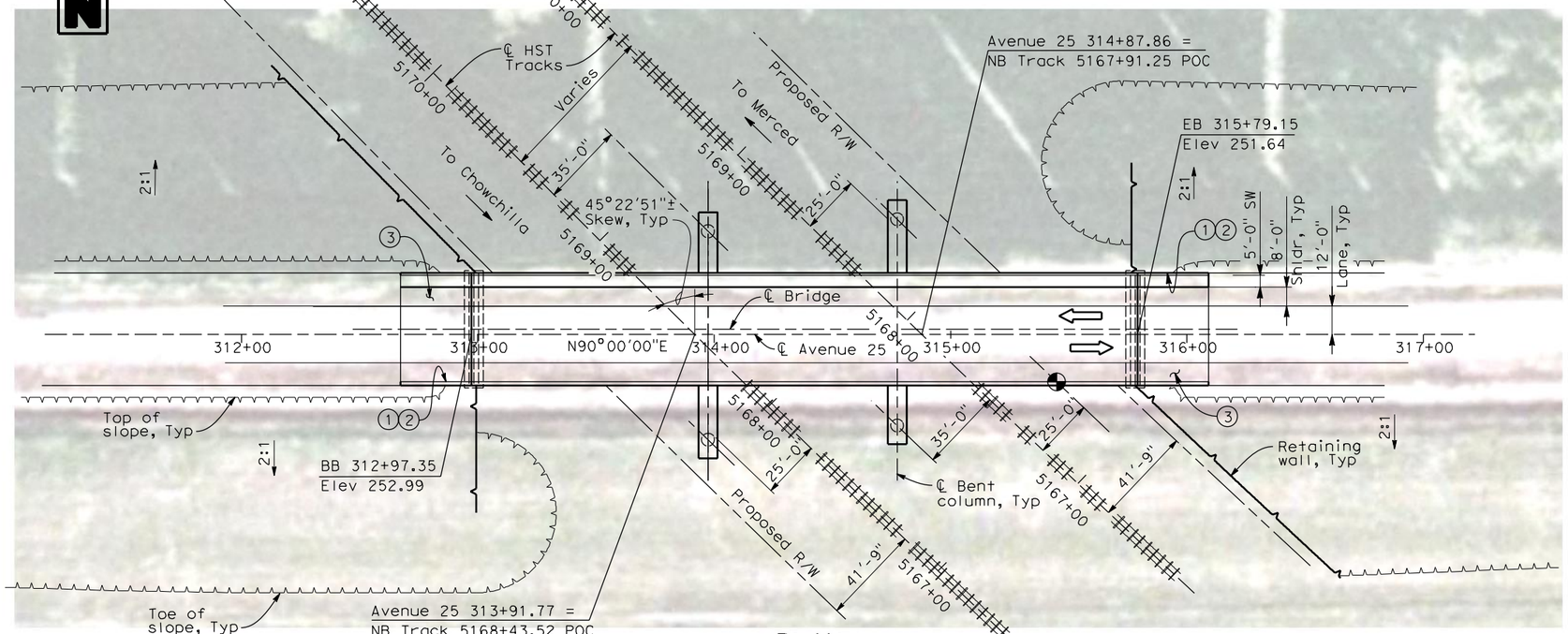
cisneros 3/31/2012 10:55:21 AM \\usscr1fp001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\cadd\Struct\Sheet\15%_Grade Structures_Revisions\W-WF-ST-OH_Road 13ML_MCDO_HY-Loc 40.dgn



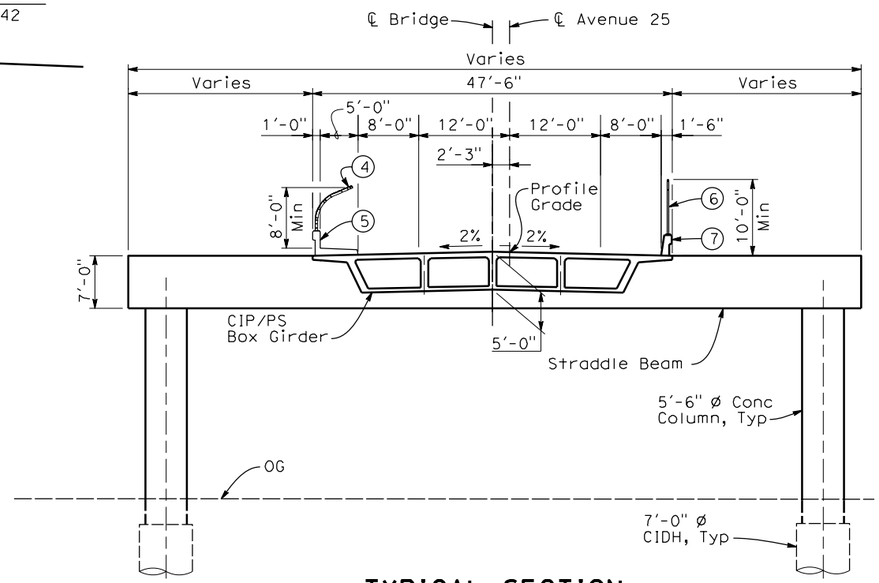
PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"



TYPICAL SECTION
1" = 10'-0"

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "Avenue 25 OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Existing underground and overhead utilities to be determined.

LEGEND:

⇦ Direction of traffic

Point of minimum vertical clearance

DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	5'-0"
LENGTH	=	281'-10"
WIDTH	=	47'-6"
AREA	=	13,390 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 27

REV	DATE	BY	CHK	APP	DESCRIPTION
1	01/13/12	HL	JR	AB	

DESIGNED BY H. LEE
DRAWN BY E. CISNEROS
CHECKED BY K. LEE
IN CHARGE A. BOONE
DATE 01/13/2012

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

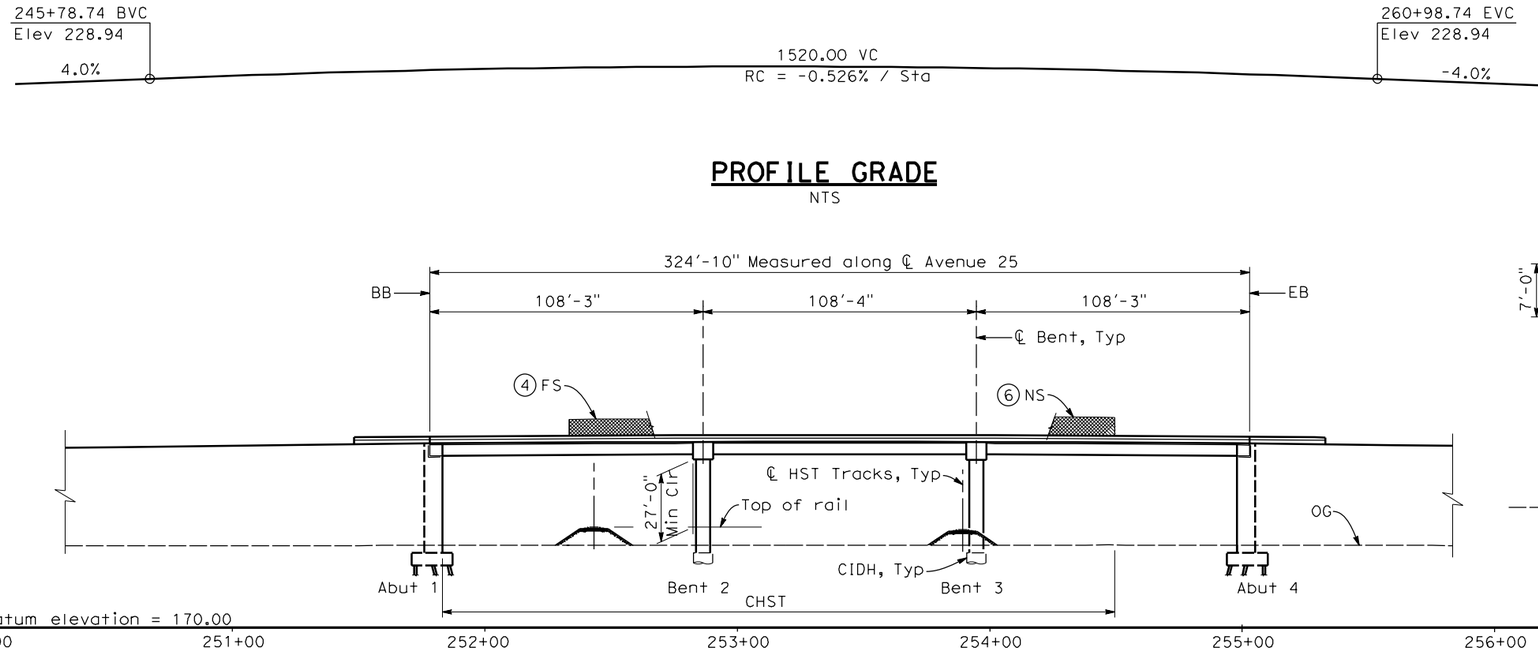
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MERCED CONNECTION
AVENUE 24
AVENUE 25 OVERHEAD
PLANNING STUDY - SHEET 1 OF 2

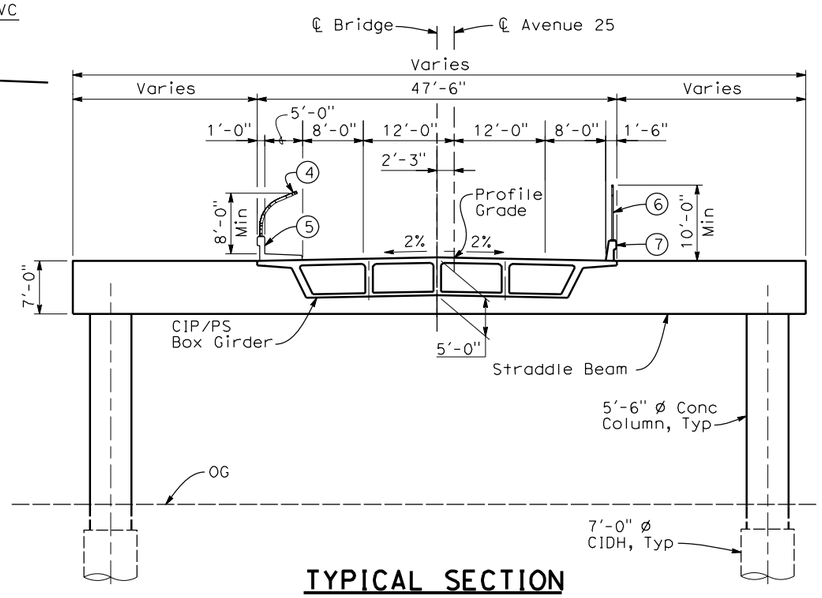
CONTRACT NO. HSR06-007
DRAWING NO. ST1133
SCALE As shown
SHEET NO. OF

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cisneros

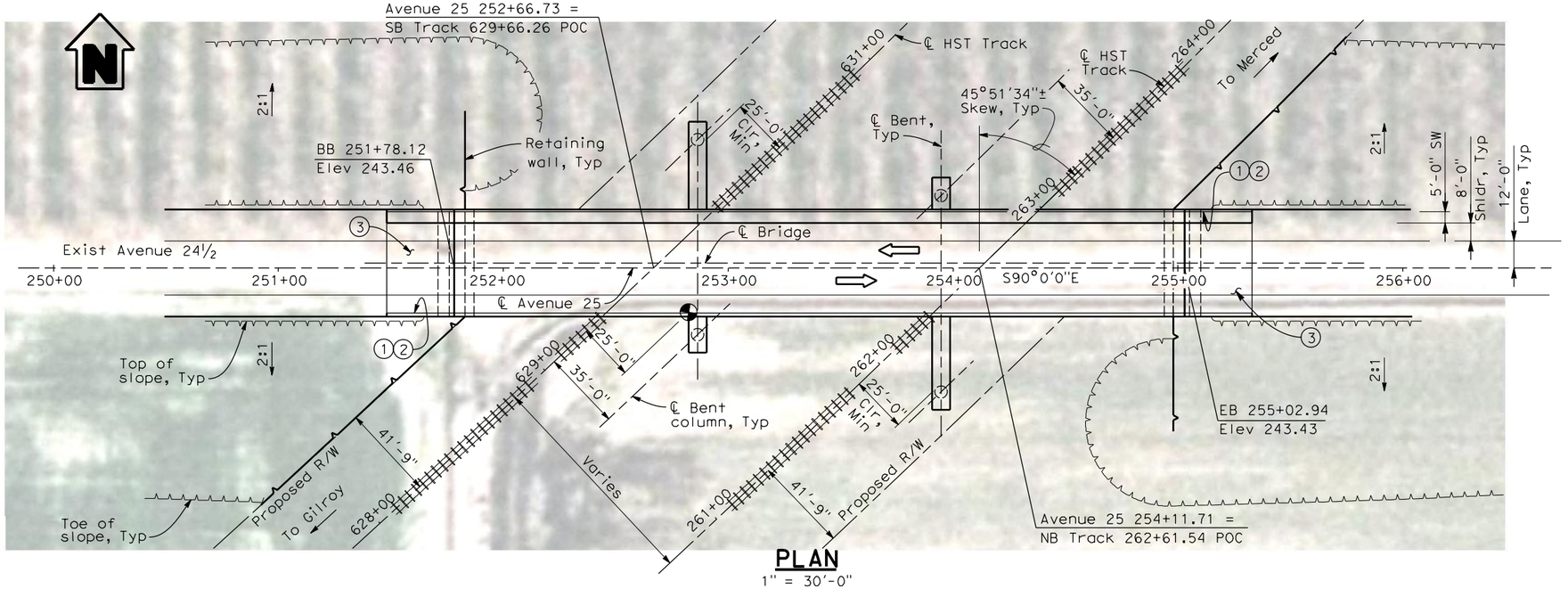


PROFILE GRADE
NTS

ELEVATION
1" = 30'-0"



TYPICAL SECTION
1"=10'-0"



PLAN
1" = 30'-0"

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "Avenue 25 OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Existing underground and overhead utilities to be determined.

LEGEND:

⇦ Direction of traffic

Point of minimum vertical clearance

DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	5'-0"
LENGTH	=	324'-10"
WIDTH	=	47'-6"
AREA	=	15,430 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 27

REV	DATE	BY	CHK	APP	DESCRIPTION
1	01/13/12	HL	JR	AB	

DESIGNED BY H. LEE
DRAWN BY E. CISNEROS
CHECKED BY H. WANG
IN CHARGE A. BOONE
DATE 01/13/2012

RECORD SET
15% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION

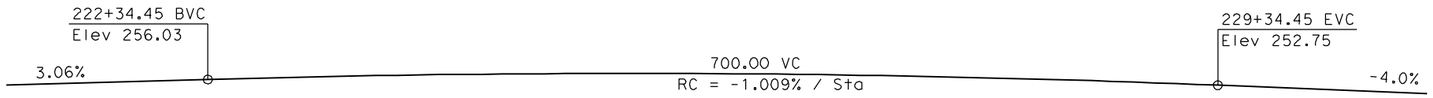
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

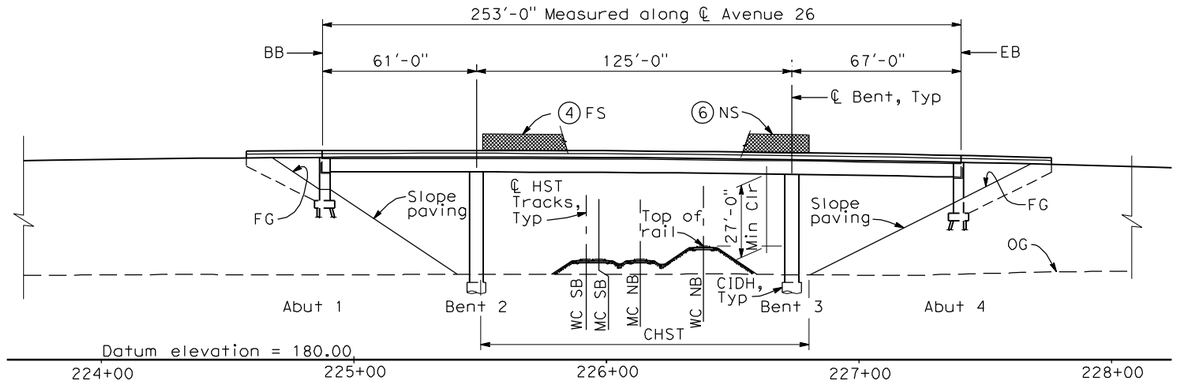
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WYE CONNECTION
AVENUE 24
AVENUE 25 OVERHEAD
PLANNING STUDY - SHEET 2 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. ST1134
SCALE As shown
SHEET NO. OF

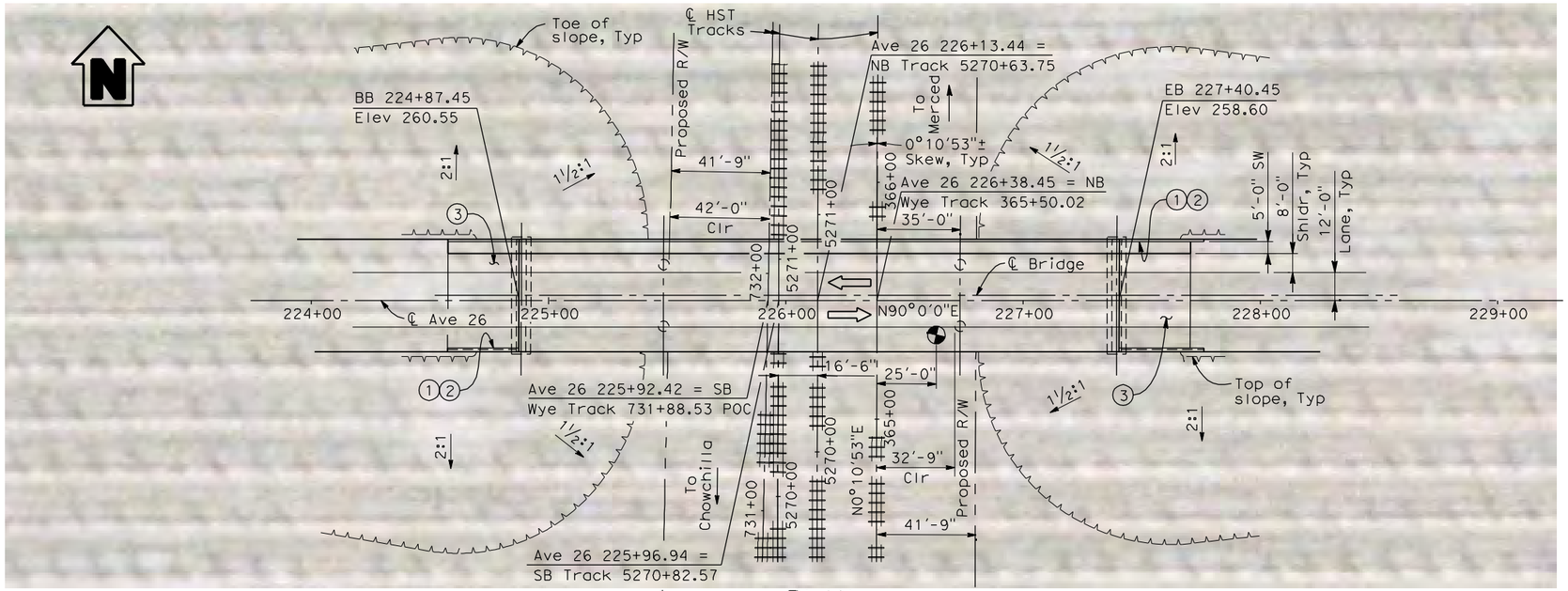
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cisnerose



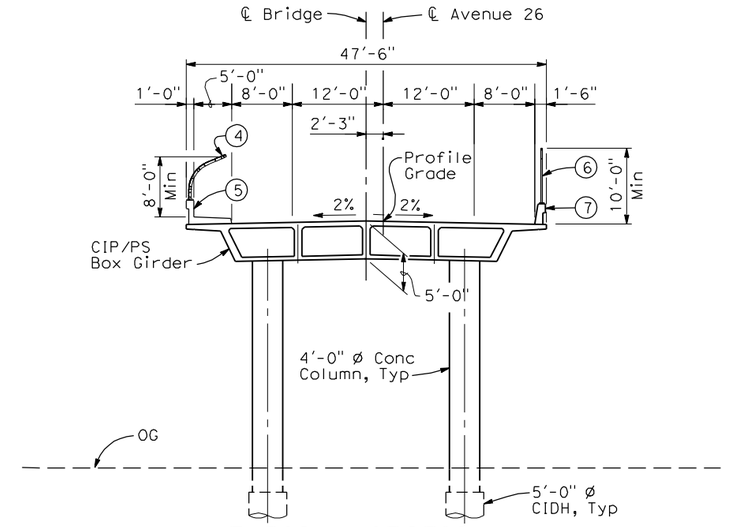
PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"



TYPICAL SECTION
1" = 10'-0"

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "Avenue 26 OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Existing underground and overhead utilities to be determined.

LEGEND/ABBREVIATIONS:

⇦ Direction of traffic

⊕ Point of minimum vertical clearance

MC = Merced Connection

WC = Wye Connection

DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	5'-0"
LENGTH	=	253'-0"
WIDTH	=	47'-6"
AREA	=	12,000 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 26

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY B. DOLAN
CHECKED BY T. BARNARD
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

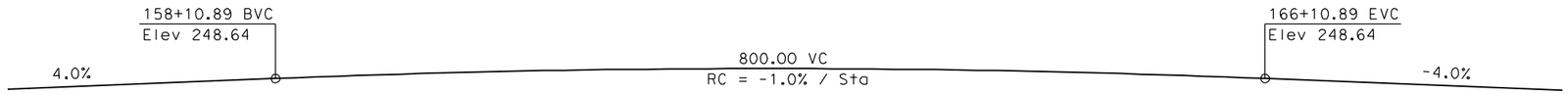
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

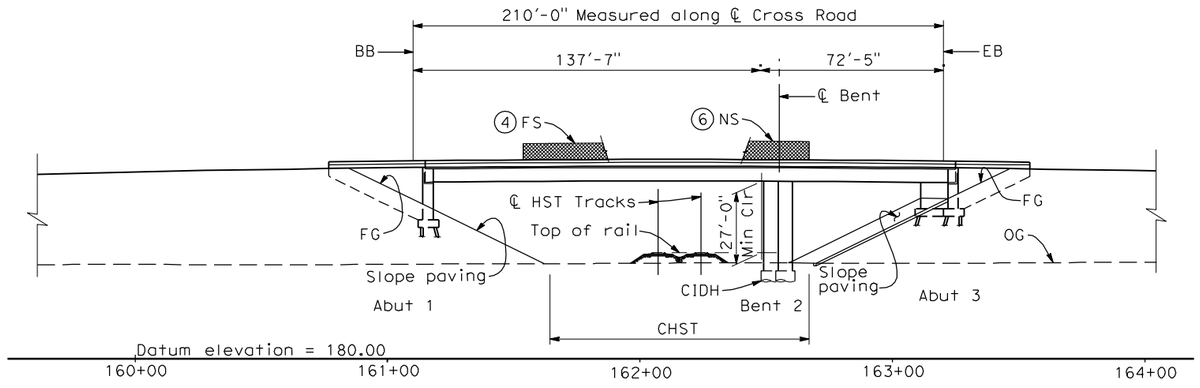
UPRR/SR 99 WYE & MERCED CONNECTIONS
AVENUE 24
AVENUE 26 OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1135
SCALE As shown
SHEET NO. OF

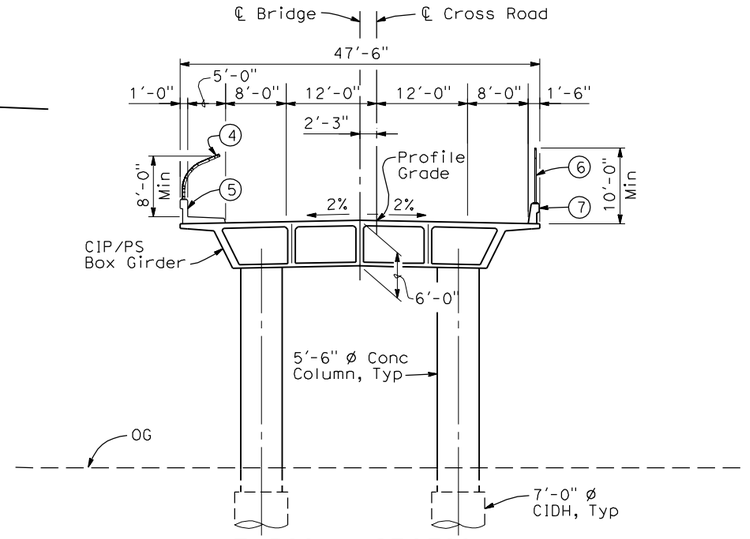
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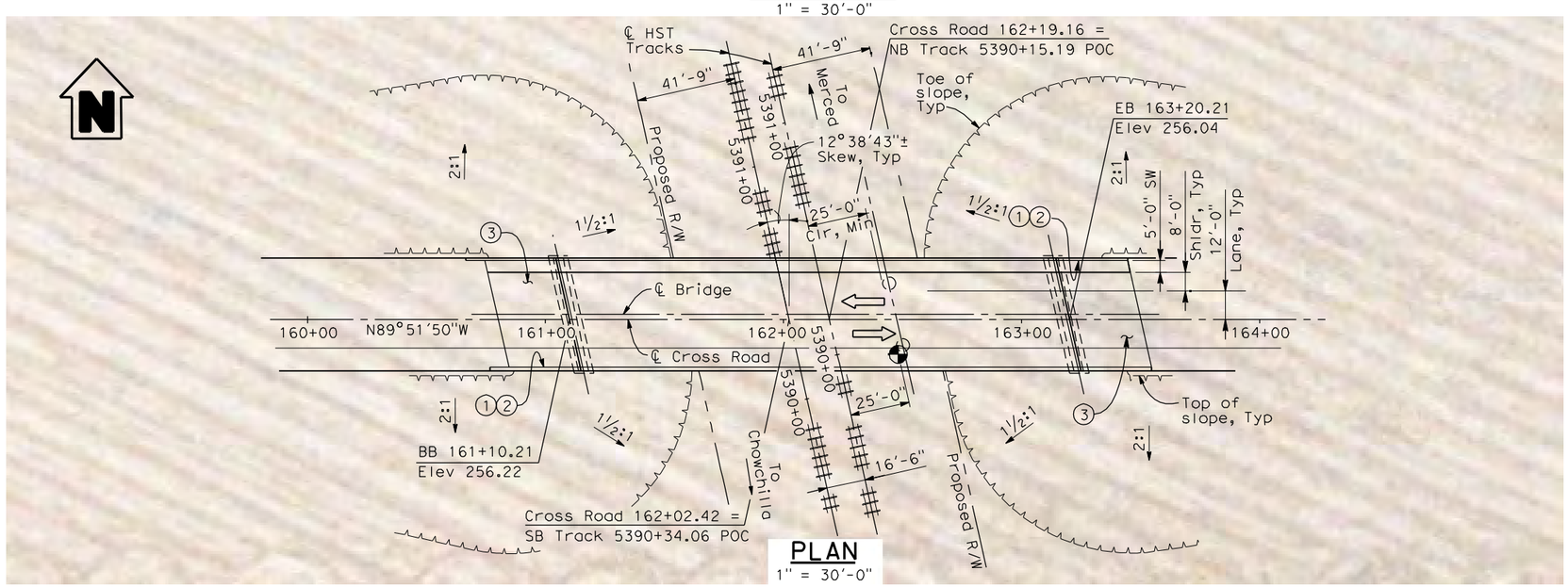
PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



TYPICAL SECTION
1" = 10'-0"



PLAN
1" = 30'-0"

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "Cross Road OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Existing underground and overhead utilities to be determined.

LEGEND:

⇦ Direction of traffic

⊕ Point of minimum vertical clearance

DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	210'-0"
WIDTH	=	47'-6"
AREA	=	9,975 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 25

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY B. DOLAN
CHECKED BY T. BARNARD
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

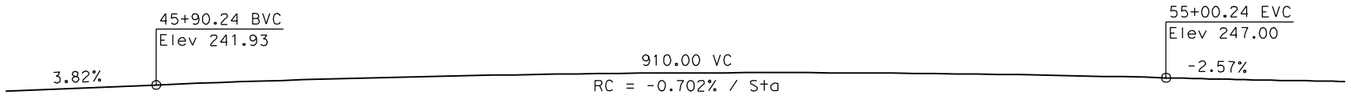
AECOM Technical Services, Inc.
2020 L Street, Suite 300 Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

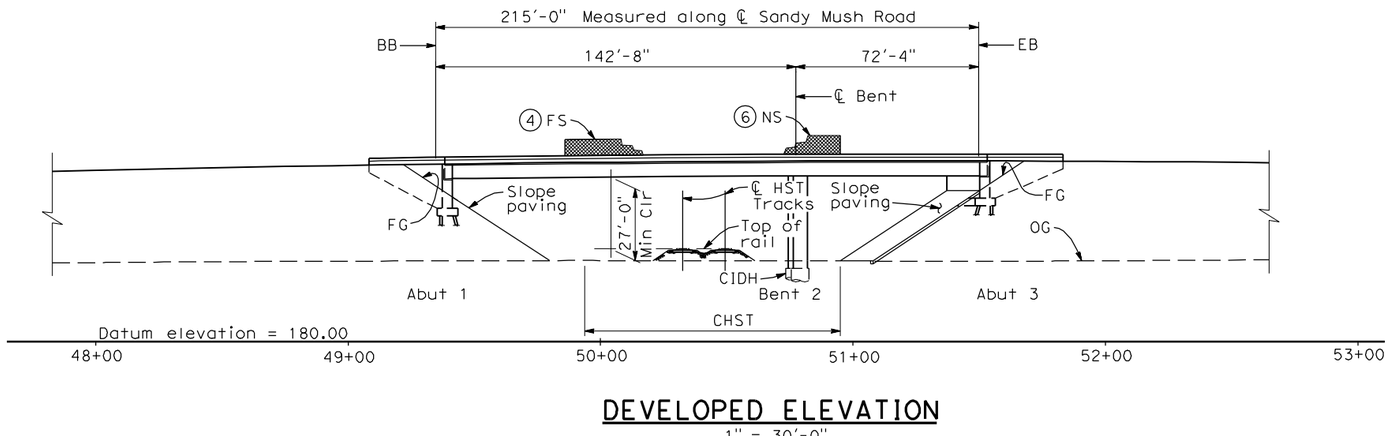
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MERCED CONNECTION
AVENUE 24
CROSS ROAD OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1136
SCALE As shown
SHEET NO. OF

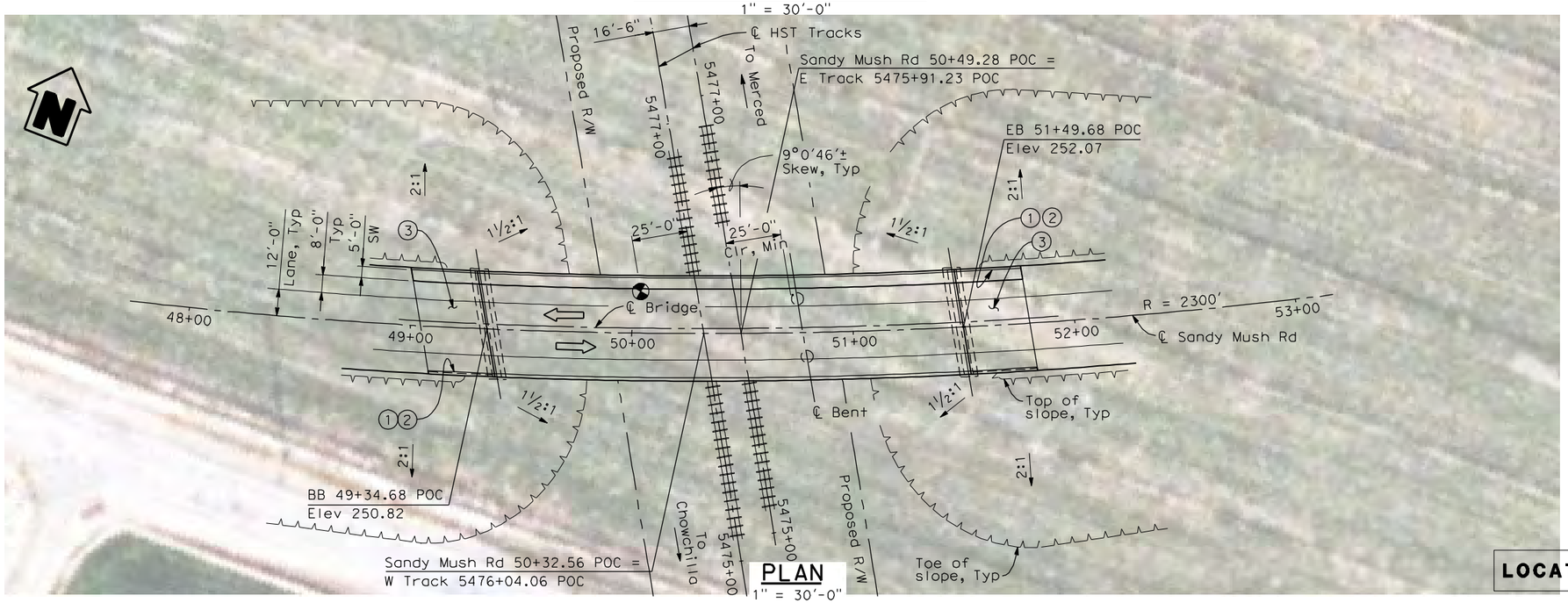
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cisnerose



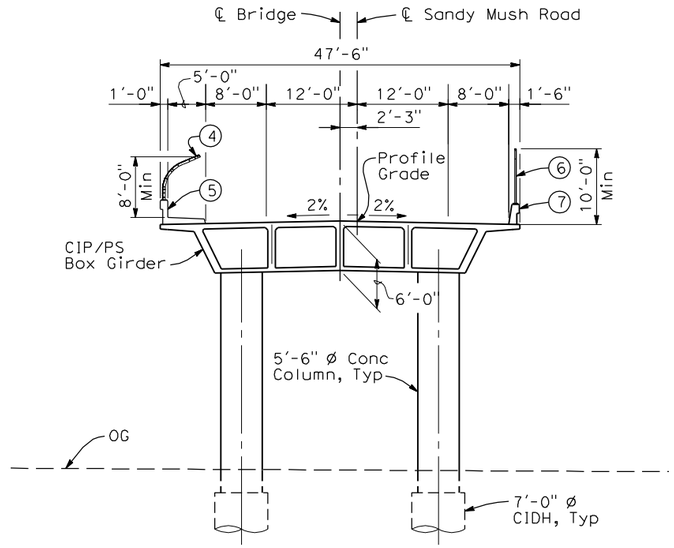
PROFILE GRADE
NTS



DEVELOPED ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"



TYPICAL SECTION
1" = 10'-0"

NOTES:

1. Paint "Bridge No. WX-ZZ"
2. Paint "Sandy Mush Road OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Existing underground and overhead utilities to be determined.

LEGEND:

⇦ Direction of traffic

Point of minimum vertical clearance

DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	215'-0"
WIDTH	=	47'-6"
AREA	=	10,200 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATIONS 35 & 35.1

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY B. DOLAN
CHECKED BY T. BARNARD
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

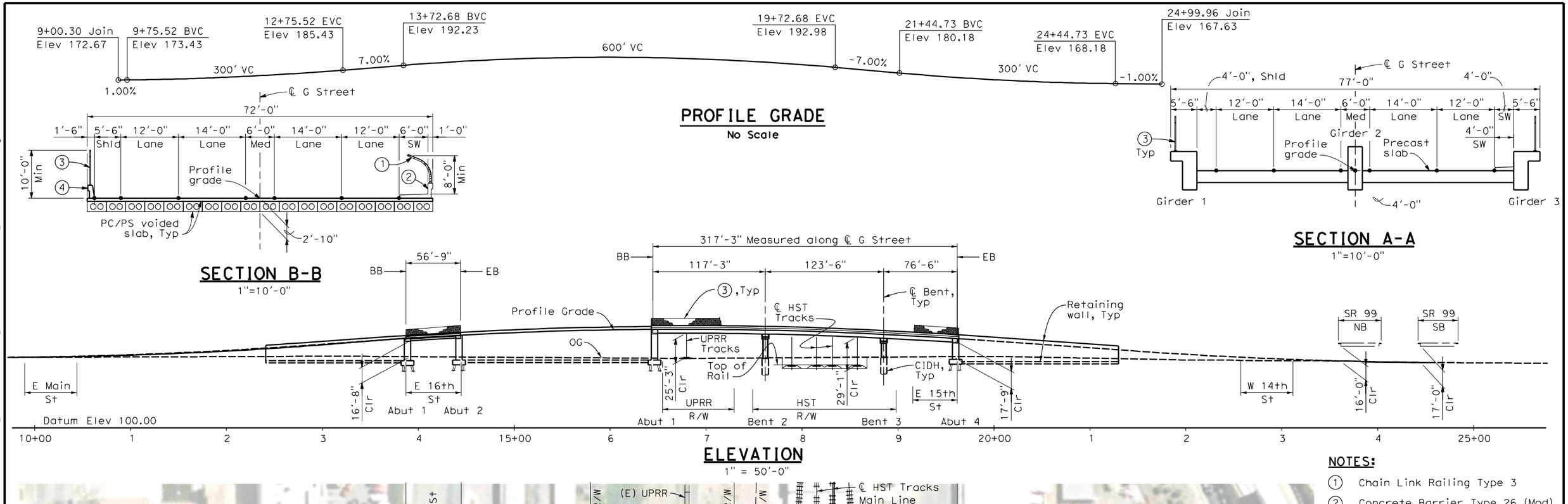
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR 99 MERCED DO - HYBRID & WYE CONNECTION
AVENUE 24
SANDY MUSH ROAD OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1139
SCALE As shown
SHEET NO. OF

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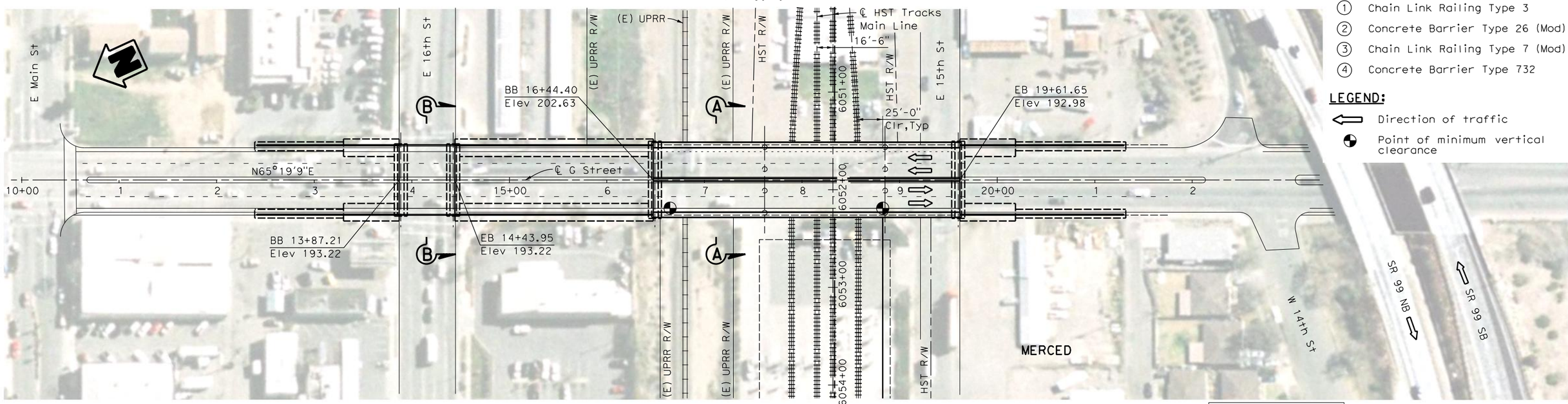
SECTION B-B
1"=10'-0"



PROFILE GRADE
No Scale

SECTION A-A
1"=10'-0"

ELEVATION
1" = 50'-0"



PLAN
1" = 50'-0"

NOTES:

1. Chain Link Railing Type 3
2. Concrete Barrier Type 26 (Mod)
3. Chain Link Railing Type 7 (Mod)
4. Concrete Barrier Type 732

LEGEND:

- Direction of traffic
- Point of minimum vertical clearance

LOCATION 64

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	01/13/12	HL	JR	AB	

DESIGNED BY H. LEE
DRAWN BY E. CISNEROS
CHECKED BY L. LEUNG
IN CHARGE A. BOONE
DATE 01/13/2012

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

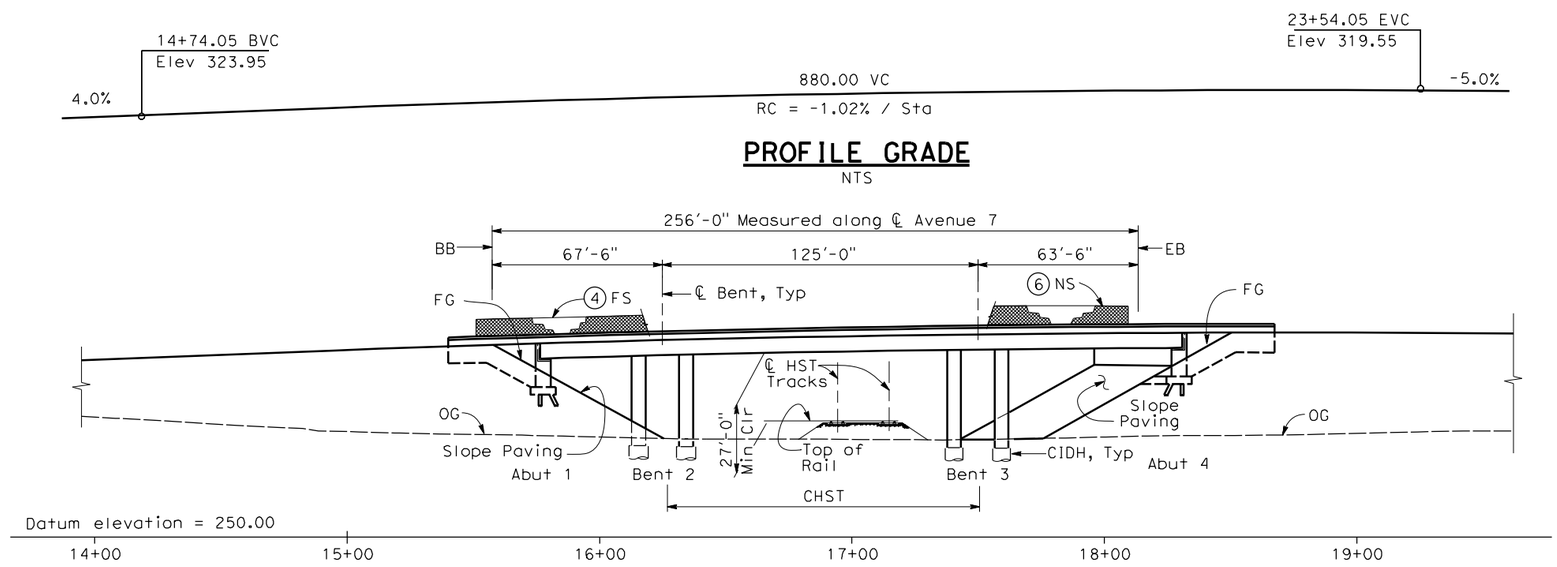
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MERCED CONNECTION
AVENUE 21
G STREET OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1180
SCALE As shown
SHEET NO. OF

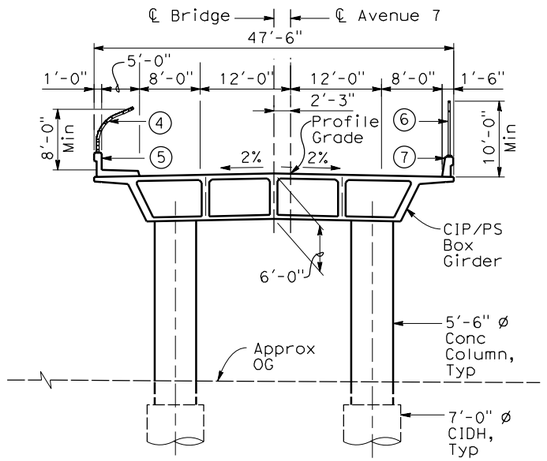
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cisnerose

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3/31/2012 11:07:18 AM
cisnerose



PROFILE GRADE
NTS

ELEVATION
1" = 30'-0"



TYPICAL SECTION
1"=10'-0"

NOTES:

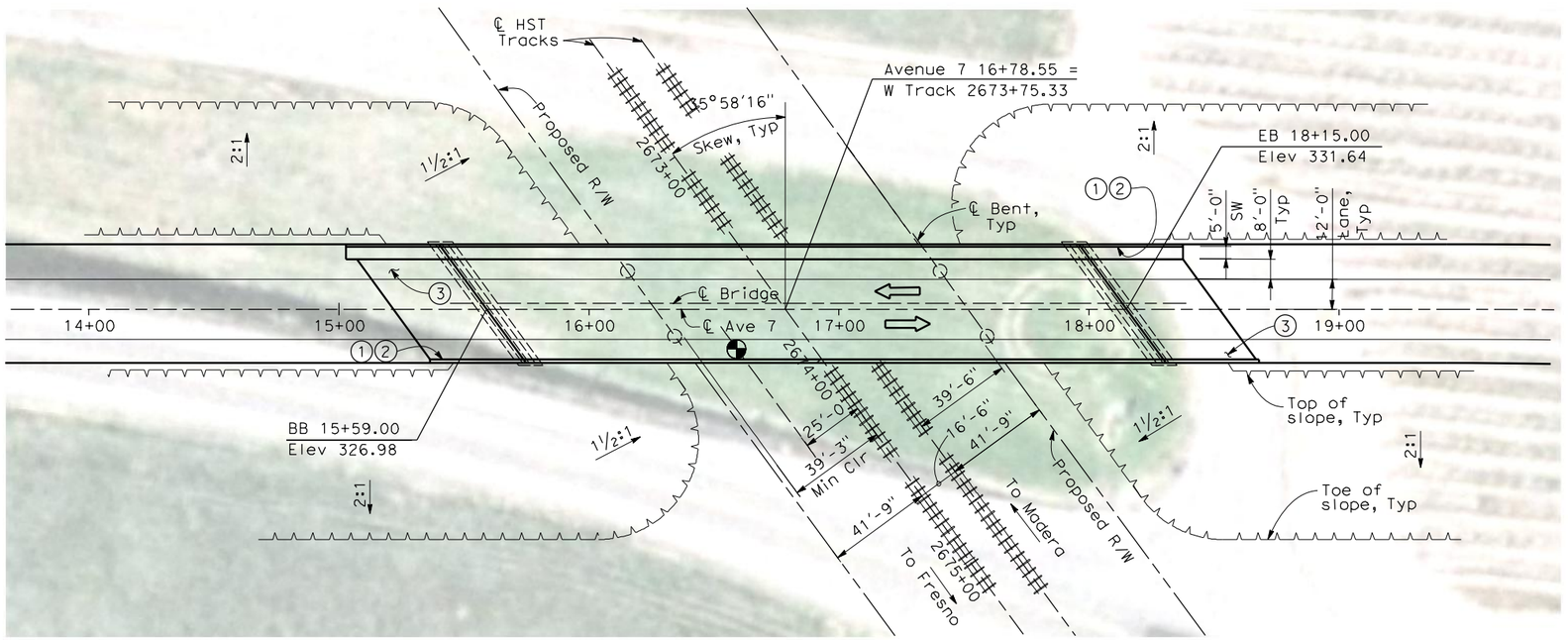
1. Paint "Bridge No. XX-XX"
2. Paint "Avenue 7 OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Bearing of Avenue 7 to be determined.
9. Existing underground and overhead utilities to be determined.

LEGEND:

⇦ Direction of traffic

Point of minimum vertical clearance

DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	256'-0"
WIDTH	=	47'-6"
AREA	=	12,160 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	



PLAN
1" = 30'-0"

LOCATION 65

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY J. HODELL
CHECKED BY L. LEUNG
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
AVENUE 7 OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1070
SCALE As shown
SHEET NO. OF

LOCATION NO.	SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	DRAWING TITLE LINE 5	DRAWING TITLE LINE 6
GENERAL						
		B7190-B	HYBRID	GENERAL	INDEX OF DRAWINGS	SHEET 1 OF 1
		B7193-B	HYBRID	GENERAL	ABBREVIATIONS, SYMBOLS AND NOTES	SHEET 1 OF 1
		B7200-B	HYBRID		INDEX MAP	SHEET 1 OF 2
		B7201-B	HYBRID		INDEX MAP	SHEET 2 OF 2
		CB7200-B	UPRR/SR99 MAINLINE DO/MERCED DO - (HYBRID)	GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1	KEY MAP	SHEET 1 OF 1
		CB7201-B	UPRR/SR99 MERCED DO - (HYBRID)	SANDY MUSH RD - INTERCHANGE	KEY MAP	SHEET 1 OF 1
		CB7202-B	UPRR/SR99 MERCED - (HYBRID)	LE GRAND RD - INTERCHANGE	KEY MAP	SHEET 1 OF 1
		CB7203-B	UPRR/SR99 MAINLINE DO/MERCED DO - (HYBRID)	UNDERPASS - ROBERTSON BLVD (SR 233) ALT 2	KEY MAP	SHEET 1 OF 1
		CT7190-B	HYBRID	HIGHWAY	TYPICAL CROSS SECTIONS	SHEET 1 OF 1
		CT7192-B	HYBRID		GENERAL STAGE CONSTRUCTION AND TRAFFIC PLAN	SHEET 1 OF 1
LAYOUT						
43		CT2001-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 8	LAYOUT	
43		CT2002-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 8	LAYOUT	
43		CT2003-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 8	LAYOUT	
39		CT7200-B	BNSF MAINLINE/MERCED DO - (HYBRID)	GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1	LAYOUT	SHEET 1 OF 4
39		CT7201-B	BNSF MAINLINE/MERCED DO - (HYBRID)	GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1	LAYOUT	SHEET 2 OF 4
39		CT7202-B	BNSF MAINLINE/MERCED DO - (HYBRID)	GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1	LAYOUT	SHEET 3 OF 4
39		CT7203-B	BNSF MAINLINE/MERCED DO - (HYBRID)	GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1	LAYOUT	SHEET 4 OF 4
35.1		CT7204-B	UPRR/SR99 MERCED DO - (HYBRID)	SANDY MUSH RD INTERCHANGE	LAYOUT	SHEET 1 OF 4
35.1		CT7205-B	UPRR/SR99 MERCED DO - (HYBRID)	SANDY MUSH RD INTERCHANGE	LAYOUT	SHEET 2 OF 4
35.1		CT7206-B	UPRR/SR99 MERCED DO - (HYBRID)	SANDY MUSH RD INTERCHANGE	LAYOUT	SHEET 3 OF 4
35.1		CT7207-B	UPRR/SR99 MERCED DO - (HYBRID)	SANDY MUSH RD INTERCHANGE	LAYOUT	SHEET 4 OF 4
19		CT7208-B	UPRR/SR99 MERCED - (HYBRID)	GRADE SEPARATION - LE GRAND RD INTERCHANGE	LAYOUT	SHEET 1 OF 5
19		CT7209-B	UPRR/SR99 MERCED - (HYBRID)	GRADE SEPARATION - LE GRAND RD INTERCHANGE	LAYOUT	SHEET 2 OF 5
19		CT7210-B	UPRR/SR99 MERCED - (HYBRID)	GRADE SEPARATION - LE GRAND RD INTERCHANGE	LAYOUT	SHEET 3 OF 5
19		CT7211-B	UPRR/SR99 MERCED - (HYBRID)	GRADE SEPARATION - LE GRAND RD INTERCHANGE	LAYOUT	SHEET 4 OF 5
19		CT7212-B	UPRR/SR99 MERCED - (HYBRID)	GRADE SEPARATION - LE GRAND RD INTERCHANGE	LAYOUT	SHEET 5 OF 5
19		CT7213-B	UPRR/SR99 MERCED - (HYBRID)	GRADE SEPARATION-LE GRAND RD IC SR99 SB ON-RAMP	LAYOUT	SHEET 1 OF 2
19		CT7214-B	UPRR/SR99 MERCED - (HYBRID)	GRADE SEPARATION-LE GRAND RD IC SR99 SB OFF-RAMP	LAYOUT	SHEET 2 OF 2
39		CT7215-B	BNSF MAINLINE/MERCED DO - (HYBRID)	UNDERPASS - ROBERTSON BLVD (SR 233) ALT 2	LAYOUT	SHEET 1 OF 3
39		CT7216-B	BNSF MAINLINE/MERCED DO - (HYBRID)	UNDERPASS - ROBERTSON BLVD (SR 233) ALT 2	LAYOUT	SHEET 2 OF 3
39		CT7217-B	BNSF MAINLINE/MERCED DO - (HYBRID)	UNDERPASS - ROBERTSON BLVD (SR 233) ALT 2	LAYOUT	SHEET 3 OF 3
PROFILE						
43		CT3001-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 8	PROFILE	SHEET 1 OF 3
43		CT3002-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 8	PROFILE	SHEET 2 OF 3
43		CT3003-A	BNSF MAIN LINE - (HYBRID)	GRADE SEPARATION - AVENUE 8	PROFILE	SHEET 3 OF 3
39		CT8200-B	BNSF MAINLINE/MERCED DO - (HYBRID)	GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1	PROFILE	SHEET 1 OF 4
39		CT8201-B	BNSF MAINLINE/MERCED DO - (HYBRID)	GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1	PROFILE	SHEET 2 OF 4
39		CT8202-B	BNSF MAINLINE/MERCED DO - (HYBRID)	GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1	PROFILE	SHEET 3 OF 4
39		CT8203-B	BNSF MAINLINE/MERCED DO - (HYBRID)	GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1	PROFILE	SHEET 4 OF 4
35.1		CT8204-B	UPRR/SR99 MERCED DO - (HYBRID)	SANDY MUSH RD INTERCHANGE	PROFILE	SHEET 1 OF 4
35.1		CT8205-B	UPRR/SR99 MERCED DO - (HYBRID)	SANDY MUSH RD INTERCHANGE	PROFILE	SHEET 2 OF 4
35.1		CT8206-B	UPRR/SR99 MERCED DO - (HYBRID)	SANDY MUSH RD INTERCHANGE	PROFILE	SHEET 3 OF 4
35.1		CT8207-B	UPRR/SR99 MERCED DO - (HYBRID)	SANDY MUSH RD INTERCHANGE	PROFILE	SHEET 4 OF 4
19		CT8208-B	UPRR/SR99 MERCED - (HYBRID)	GRADE SEPARATION - LE GRAND RD INTERCHANGE	PROFILE	SHEET 1 OF 5
19		CT8209-B	UPRR/SR99 MERCED - (HYBRID)	GRADE SEPARATION - LE GRAND RD INTERCHANGE	PROFILE	SHEET 2 OF 5
19		CT8210-B	UPRR/SR99 MERCED - (HYBRID)	GRADE SEPARATION - LE GRAND RD INTERCHANGE	PROFILE	SHEET 3 OF 5
19		CT8211-B	UPRR/SR99 MERCED - (HYBRID)	GRADE SEPARATION - LE GRAND RD INTERCHANGE	PROFILE	SHEET 4 OF 5
19		CT8212-B	UPRR/SR99 MERCED - (HYBRID)	GRADE SEPARATION - LE GRAND RD INTERCHANGE	PROFILE	SHEET 5 OF 5
19		CT8213-B	UPRR/SR99 MERCED - (HYBRID)	GRADE SEPARATION-LE GRAND RD IC SR99 SB ON-RAMP	PROFILE	SHEET 1 OF 4
19		CT8214-B	UPRR/SR99 MERCED - (HYBRID)	GRADE SEPARATION-LE GRAND RD IC SR99 SB ON-RAMP	PROFILE	SHEET 2 OF 4
19		CT8215-B	UPRR/SR99 MERCED - (HYBRID)	GRADE SEPARATION-LE GRAND RD IC SR99 SB OFF-RAMP	PROFILE	SHEET 3 OF 4
19		CT8216-B	UPRR/SR99 MERCED - (HYBRID)	GRADE SEPARATION-LE GRAND RD IC SR99 SB OFF-RAMP	PROFILE	SHEET 4 OF 4
39		CT8217-B	BNSF MAINLINE/MERCED DO - (HYBRID)	UNDERPASS - ROBERTSON BLVD (SR 233) ALT 2	PROFILE	SHEET 1 OF 3
39		CT8218-B	BNSF MAINLINE/MERCED DO - (HYBRID)	UNDERPASS - ROBERTSON BLVD (SR 233) ALT 2	PROFILE	SHEET 2 OF 3
39		CT8219-B	BNSF MAINLINE/MERCED DO - (HYBRID)	UNDERPASS - ROBERTSON BLVD (SR 233) ALT 2	PROFILE	SHEET 3 OF 3

REV	DATE	BY	CHK	APP	DESCRIPTION
2	02/24/12	RG			
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
HYBRID
GENERAL
INDEX OF DRAWINGS
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. B7190-B
SCALE NONE
SHEET NO. ### OF ###

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ABBREVIATIONS

ALIGNMENT

HORIZONTAL

BC	BEGINNING OF CURVE
EC	END OF CURVE
PC	POINT OF CURVE
PCC	POINT OF COMPOUNT CURVES
PI	POINT OF INTERSECTION OF TWO TANGENTS
POB	POINT OF BEGINNING
POC	POINT ON CURVE
POE	POINT OF ENDING
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVES
PT	POINT OF TANGENCY
R	RADIUS OF CURVATURE IN FEET
V, DS	DESIGN VELOCITY IN MILES PER HOUR

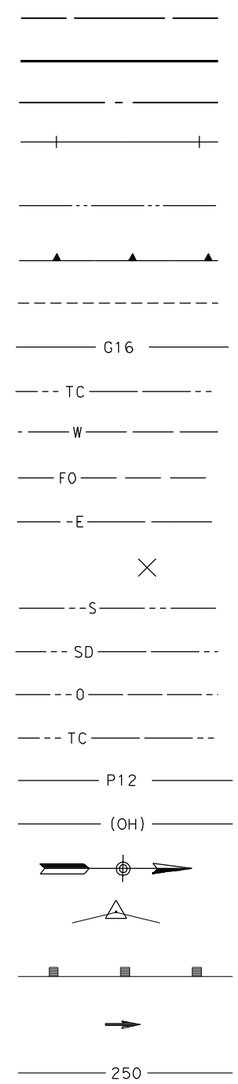
VERTICAL

BVC	BEGIN OF VERTICAL CURVE
EVC	END OF VERTICAL CURVE
PVC	POINT OF VERTICAL CURVE (BEGINNING OF CURVE)
PVI	POINT OF VERTICAL INTERSECTION (OF TANGENTS)
PVT	POINT OF VERTICAL TANGENCY (ENDING OF CURVE)
VC	VERTICAL CURVE

MISCELLANEOUS

ALT	ALTERNATIVE
AVE	AVENUE
BB	BEGIN BRIDGE
BEG	BEGIN
BLVD	BOULEVARD
℄	CENTER LINE
CL	CENTERLINE, CLASS
CLR	CLEAR
COL	COLUMN
DWG	DRAWING
EB	END BRIDGE
ELEV	ELEVATION
EQ	EQUATION
ES	EDGE OF SIDEWALK
ETW	EDGE OF TRAVELED WAY
EXIST(E)	EXISTING
FL	FLOW LINE
HORIZ	HORIZONTAL
HP	HINGE POINT
HST	HIGH SPEED TRAIN
HWY	HIGHWAY
IC	INTERCHANGE
IN	INCH
L	LENGTH
LT	LEFT
MBGR	METAL BEAM GUARD RAIL
ML	MAINLINE
MPH	MILES PER HOUR
MAX	MAXIMUM
MIN	MINIMUM
N	NORTH
NB	NORTH BOUND
No, NO	NUMBER
NTS	NOT TO SCALE
OG	ORIGINAL GROUND
O/H OH	OVERHEAD
PG&E	PACIFIC GAS & ELECTRIC
PGL, FG	PROFILE GRADE LINE
RET	RETAINING
RR	RAILROAD
RD	ROAD
R/W	RIGHT OF WAY
RT	RIGHT
SB	SOUTH BOUND
SHLD	SHOULDER
SR	STATE ROUTE
SHT	SHEET
SS	SANITARY SEWER
SSD	STOPPING SIGHT DISTANCE
ST	STREET
STA	STATION
STD	STANDARD
SD	STORM DRAIN
STRUCT, STR	STRUCTURE
T	TANGENT
TEL	TELEPHONE
	(OH) OVERHEAD LINE
	(UG) UNDERGROUND LINE
TOR	TOP OF RAIL
TK	TRACK
TYP	TYPICAL
TBD	TO BE DETERMINED
TF	TELECOMMUNICATIONS FIBER OPTIC
UPRR	UNION PACIFIC RAILROAD
VAR	VARIES
V VERT	VERTICAL
W	WATER, WEST

SYMBOLS



MATCH LINE

HST TRACK

PROPOSED HST RIGHT-OF-WAY

FREIGHT/PASSENGER TRACK - EXISTING

EXISTING RIGHT-OF-WAY OR EXISTING BRIDGE FEATURES

RETAINING WALLS

ORIGINAL GROUND

GAS LINE (16")

COMMUNICATION LINE

WATER LINE

FIBER OPTIC LINE

ELECTRICAL LINE

ELECTRICAL TOWER

SEWER LINE

STORM DRAIN LINE

FUEL LINE

TELEPHONE LINE

PETROLEUM LINE (12")

OVERHEAD

NORTH ARRROW

PVI

MBGR

DIRECTION OF TRAVEL

250 PROPOSED CONTOUR

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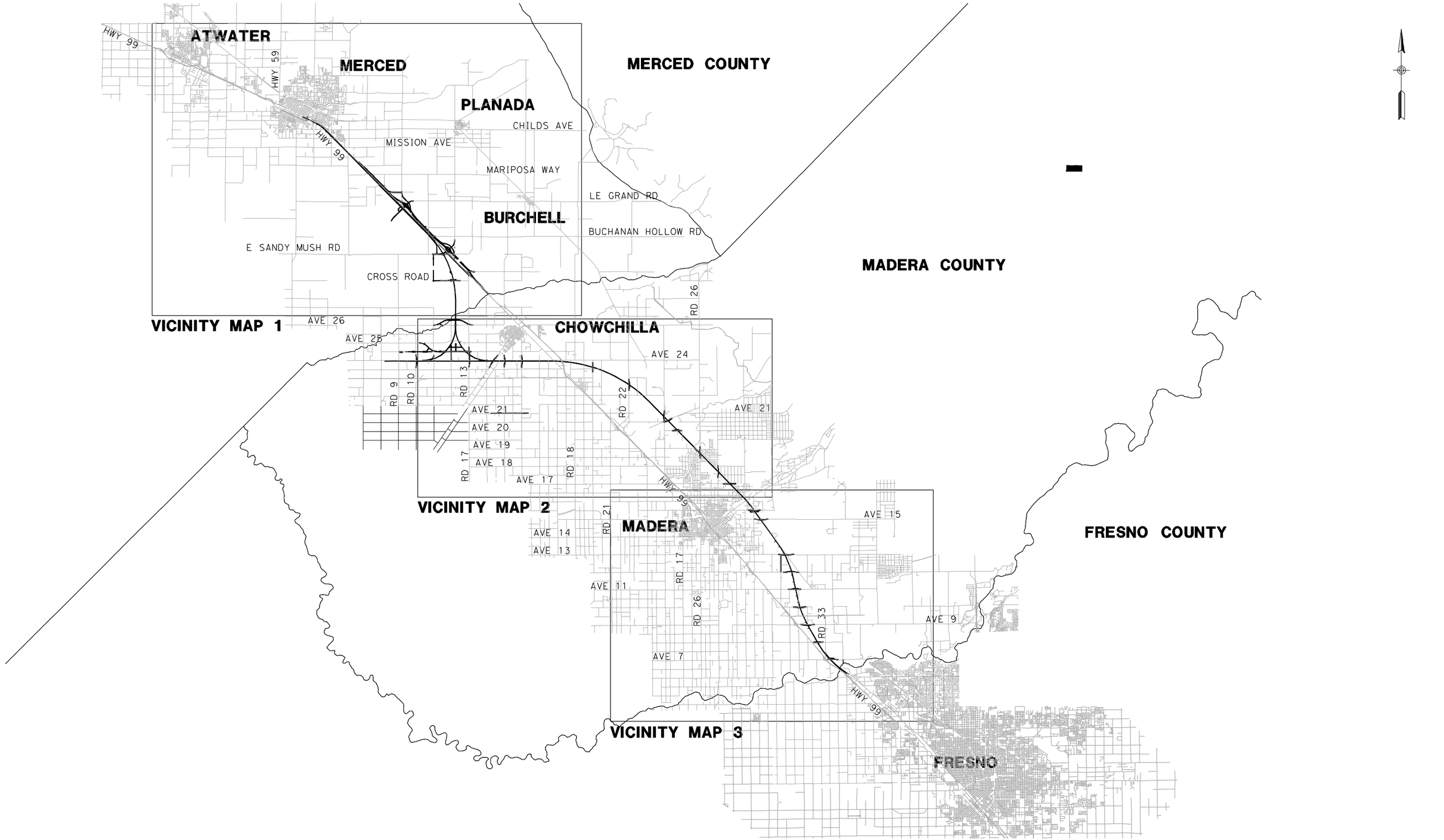
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MERCED TO FRESNO
HYBRID
GENERAL
ABBREVIATIONS, SYMBOLS AND NOTES
SHEET 1 OF 1

CONTRACT NO. HSR06-007
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2	02/24/2012	RG			
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
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HYBRID

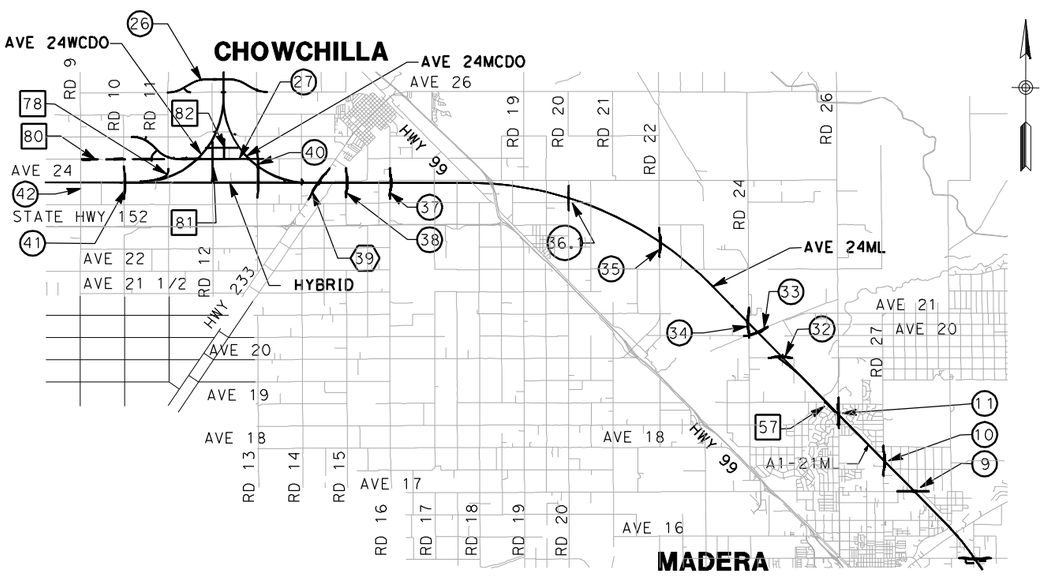
INDEX MAP
SHEET 1 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. B7200-B
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LOCATION NO.	SHEET TITLE	ROADWAY DWG NO.	STR DWG NO.
(1)	GRADE SEPARATION - AVENUE 9	CT0001-A - CT0003-A	ST1001
(2)	GRADE SEPARATION - AVENUE 10	CT0004-A - CT0006-A	ST1002
(3)	GRADE SEPARATION - AVENUE 11	CT0007-A - CT0009-A	ST1003
(4)	GRADE SEPARATION - AVENUE 12	CT0010-A - CT0012-A	ST1004
(5)	GRADE SEPARATION - AVENUE 13	CT0013-A - CT0016-A	ST1005
(6)	GRADE SEPARATION - AVENUE 15	CT0017-A - CT0019-A	ST1006
(7)	GRADE SEPARATION - AVENUE 15 1/2	CT0020-A - CT0022-A	ST1007
(9)	GRADE SEPARATION - AVENUE 17	CT0026-A - CT0028-A	ST1009
(10)	GRADE SEPARATION - ROAD 27	CT0029-A - CT0031-A	
(11)	GRADE SEPARATION - ROAD 26	CT0032-A - CT0034-A	
⟨19⟩	GRADE SEPARATION - LE GRAND INTERCHANGE	CT7208-B - CT7214-B	ST1114
(25)	GRADE SEPARATION - CROSS ROAD	CT5238-B - CT5240-B	ST1136
(26)	GRADE SEPARATION - AVENUE 26 ALT 1	CT5227-B - CT5236-B	ST1135
	UNDERPASS - AVENUE 26 ALT 2	CT5246-B - CT5248-B	
(27)	GRADE SEPARATION - AVENUE 25	CT5210-B - CT5221-B	ST1133 - ST1134
(32)	GRADE SEPARATION - AVENUE 20	CT0113-A - CT0115-A	ST1035
(33)	GRADE SEPARATION - AVENUE 20 1/2	CT0116-A - CT0118-A	ST1036 - ST1037
(34)	GRADE SEPARATION - ROAD 24	CT0119-A - CT0121-A	ST1038 - ST1039
(35)	GRADE SEPARATION - ROAD 22	CT0122-A - CT0124-A	ST1040
⟨35.⟩	SANDY MUSH RD INTERCHANGE	CT7204-B - CT7207-B	ST1142
(36.)	GRADE SEPARATION - ROAD 20	CT0125.1-A-CT0127.1-A	ST1041

LOCATION NO.	SHEET TITLE	ROADWAY DWG NO.	STR DWG NO.
(37)	GRADE SEPARATION - ROAD 16	CT0128-A - CT0130-A	ST1042
(38)	GRADE SEPARATION - ROAD 15	CT0131-A - CT0133-A	ST1043
⟨39⟩	GRADE SEPARATION - ROBERTSON BLVD (SR233) ALT 1	CT7200-B - CT7203-B	ST1150
	UNDERPASS - ROBERTSON BLVD (SR233) ALT 2	CT7215-B - CT7217-B	
(40)	GRADE SEPARATION - ROAD 13	CT5203-B - CT5207-B	ST1121 & ST1139
(41)	GRADE SEPARATION - ROAD 10 ALT 1	CT5200-B - CT5202-B	ST1160
	GRADE SEPARATION - ROAD 10 ALONG EXIST ALT 2	CT5249-B - CT5251-B	ST1160
(42)	GRADE SEPARATION - ROAD 9	CT0143-A - CT0145-A	ST1120
(64)	GRADE SEPARATION - G STREET	CT0149-A	ST1180
(65)	GRADE SEPARATION - AVENUE 7	CT0146-A - CT0148-A	
⟨43⟩	CALTRANS - AVENUE 8	CT2000-A - CT2002-A	ST1000
[46]	LOCAL ROAD - ROAD 30 1/2	CR4000-A	
[47]	LOCAL ROAD - ROAD 29	CR4001-A	
[57]	LOCAL ROAD - HANOVER DR	CR4012-A	
[66]	PROPOSED WEST FRONTAGE ROAD	CR9204-B - CR9207-B	
[67]	LOCAL ROAD - ROAD 33	CR4018-A	
[75]	LOCAL ROAD - WEST FRONTAGE ROAD	CR9200-B - CR9201-B	
[76]	LOCAL ROAD - SANDY MUSH ROAD	CR9210-B	
	LOCAL ROAD - WEST FRONTAGE ROAD	CR9202-B - CR9203-B	
[77]	LOCAL ROAD - ROAD 11	CR9208-B - CR9209-B	
	LOCAL ROAD - CROSS ROAD	CR9211-B	
[78]	LOCAL ROAD - AVENUE 24	CR9217-B - CR9218-B	
[80]	LOCAL ROAD - AVENUE 24 1/2	CR9212-B - CR9213-B	
[81]	LOCAL ROAD - ROAD 12	CR9214-B	
[82]	LOCAL ROAD - ROAD 12 1/2 & AVE 24 3/4	CR9215-B	
	LOCAL ROAD - AVENUE 24 3/4	CR9216-B	
[85]	HEALY RD	CR9219-B	
[86]	GERARD AVE/CALTRANS FRONTAGE RD	CR9220-B	



VICINITY MAP 2

VICINITY MAP 3

VICINITY MAP 1

LOCATION NUMBER LEGEND

(X) - INDICATES GRADE SEPARATION

⟨X⟩ - INDICATES CALTRANS FACILITIES MODIFICATION

[X] - INDICATES LOCAL ROAD RELOCATION

FOR ROADWAY STRUCTURES SEE STRUCTURAL INDEX MAPS

9000 0 9000 18000
GRAPHIC SCALE

REV	DATE	BY	CHK	APP	DESCRIPTION
2	02/24/2012	RG			
1	12/28/2011	RG			

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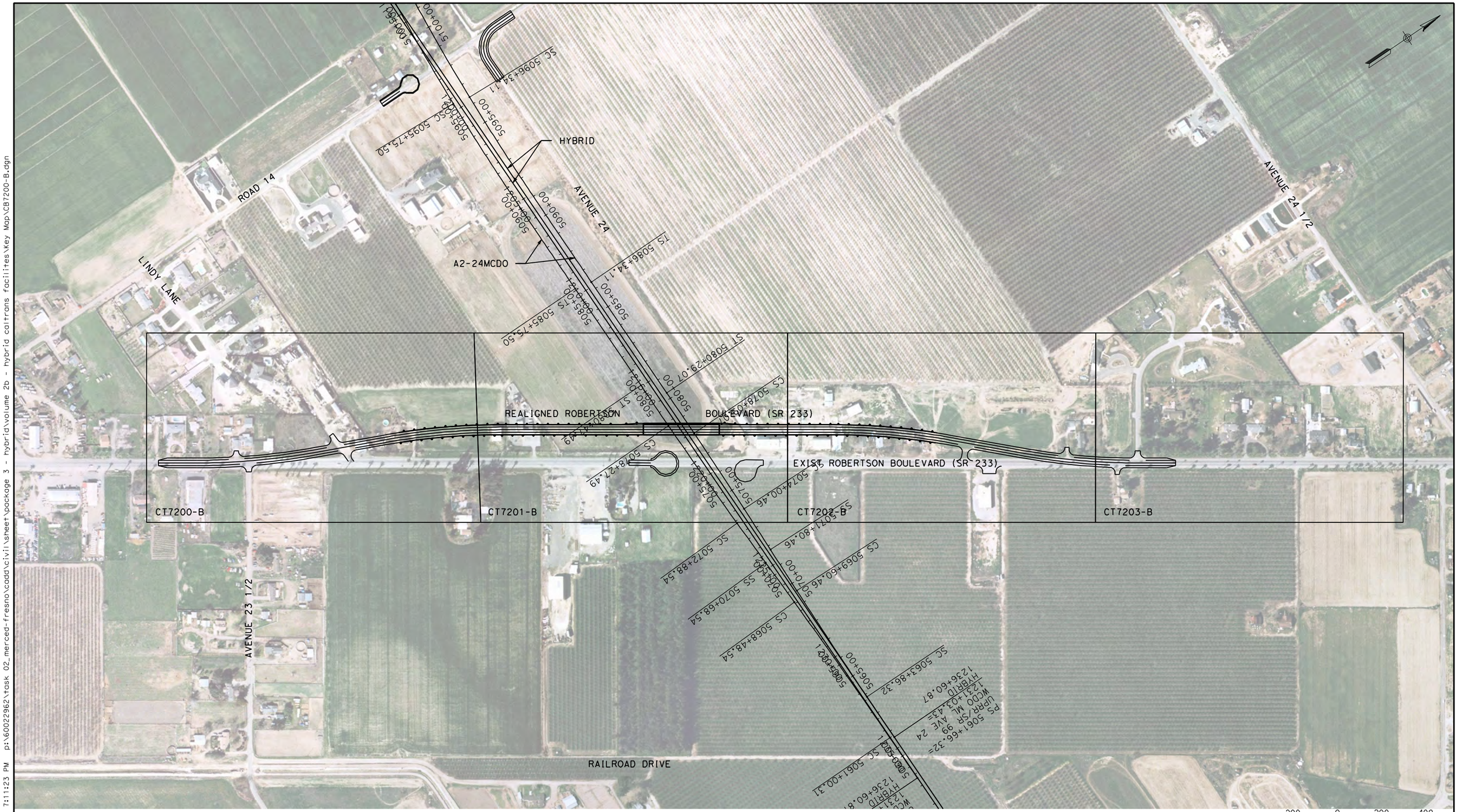
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

HYBRID

INDEX MAP
SHEET 2 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. B7201-B
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UPRR/SR99 MAINLINE DO/MERCED DO - (HYBRID)
GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1
KEY MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CB7200-B
SCALE AS SHOWN
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200 0 200 400
1"=200'

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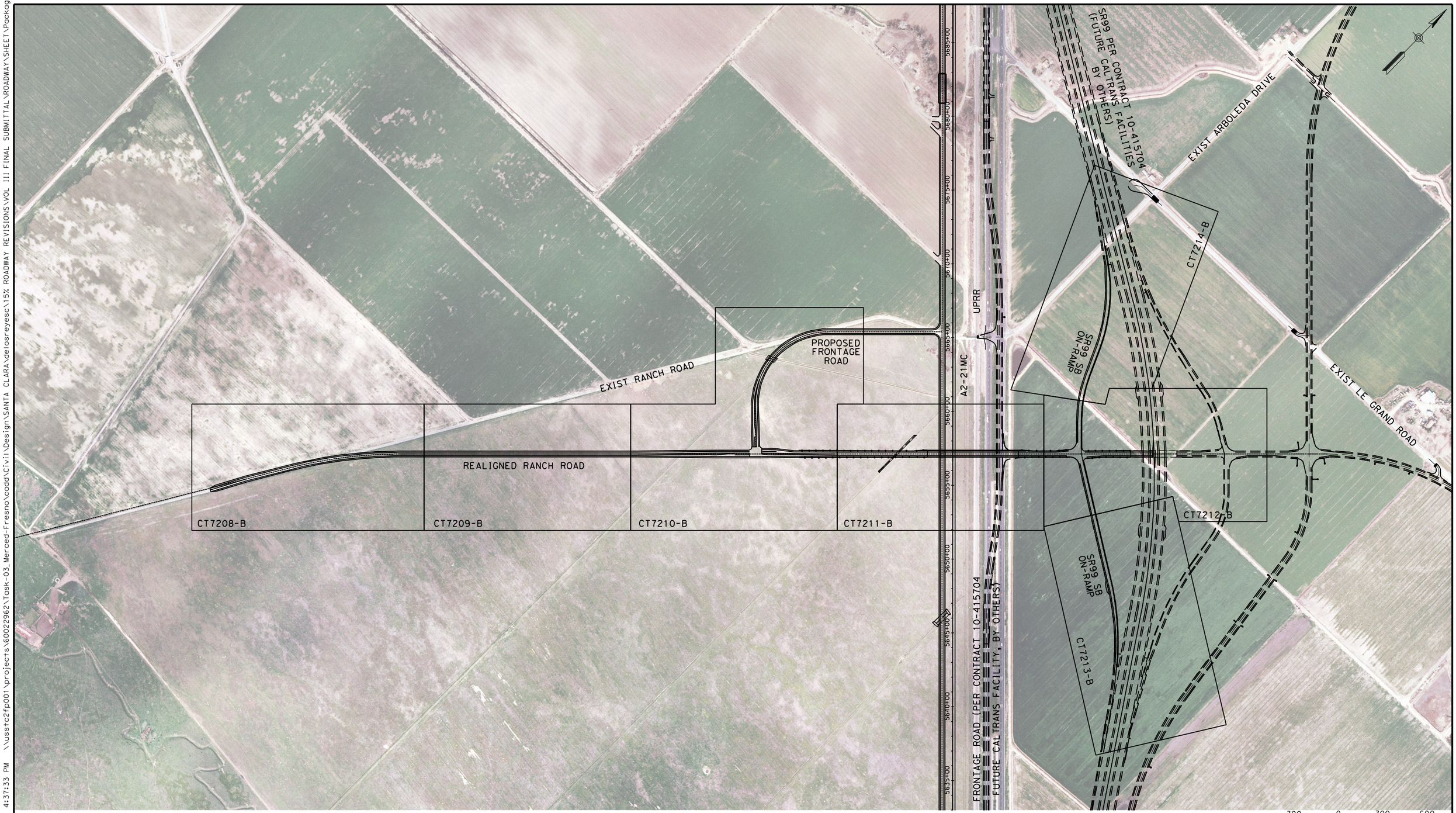
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UPRR/SR99 MERCED DO - (HYBRID)
SANDY MUSH RD - INTERCHANGE
KEY MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CB7201-B
SCALE AS SHOWN
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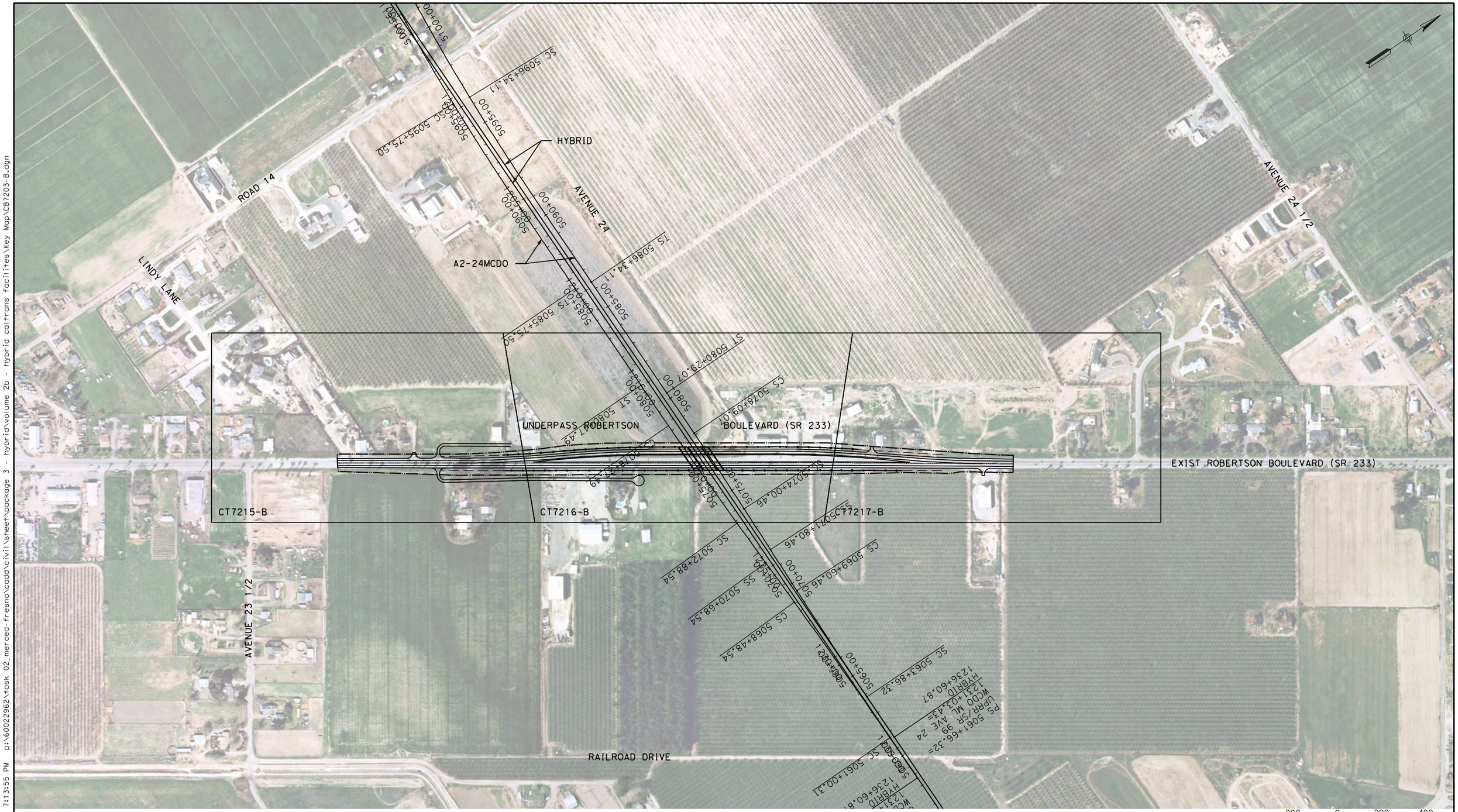
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UPRR/SR99 MERCED - (HYBRID)
LE GRAND RD - INTERCHANGE
KEY MAP
SHEET 1 OF 1

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MAINLINE DO/MERCED DO - (HYBRID)
UNDERPASS - ROBERTSON BOULEVARD (SR 233) ALT 2
KEY MAP
SHEET 1 OF 1

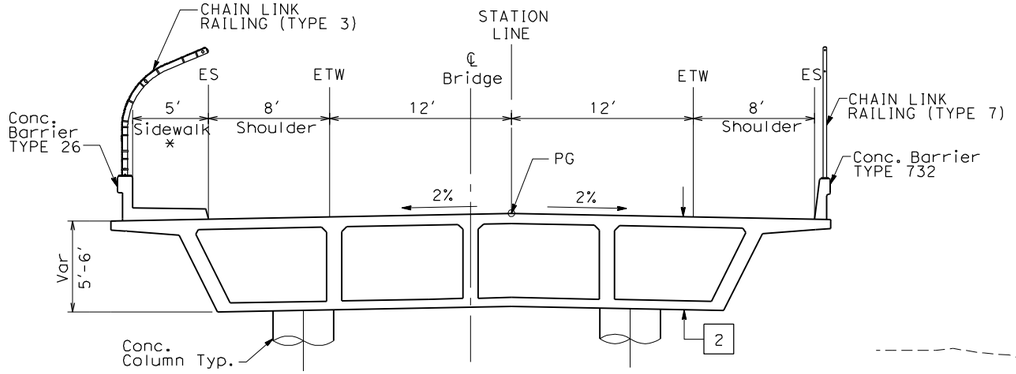
CONTRACT NO. HSR06-007
DRAWING NO. CB7203-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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hybrid\volume 2b -

NOTES:

1. DIMENSIONS OF EXISTING PAVEMENT WIDTHS ARE BASED ON MEASUREMENTS MADE IN THE FIELD AND ARE APPROXIMATE.
2. PAVEMENT SECTIONS ARE TO BE DETERMINED. GEOTECHNICAL INVESTIGATIONS WILL BE CONDUCTED IN A SUBSEQUENT PHASE TO DETERMINE STRUCTURAL SECTIONS FOR EACH CROSSING.
3. SPACING OF BENCHES ON PROPOSED FILL SECTIONS ARE TO BE DETERMINED.
4. RIGHT-OF-WAY (R/W) WIDTH IS FOR INFORMATION ONLY. EXACT WIDTH TO BE DETERMINED IN COORDINATION WITH AFFECTED AGENCY.

*SIDEWALK SHOWN ON WESTBOUND SIDE, EASTBOUND SIMILAR SEE LAYOUT SHEETS FOR DETAILS.



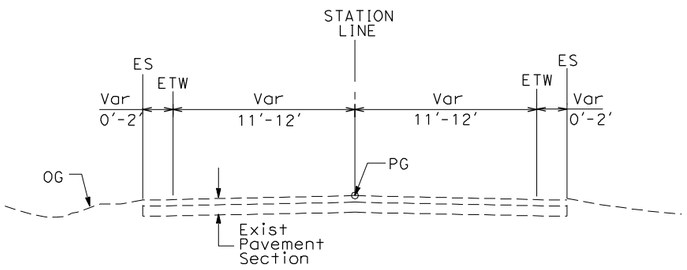
OVERHEAD STRUCTURE

SEE STRUCTURAL PLANS

STRUCTURAL SECTIONS:

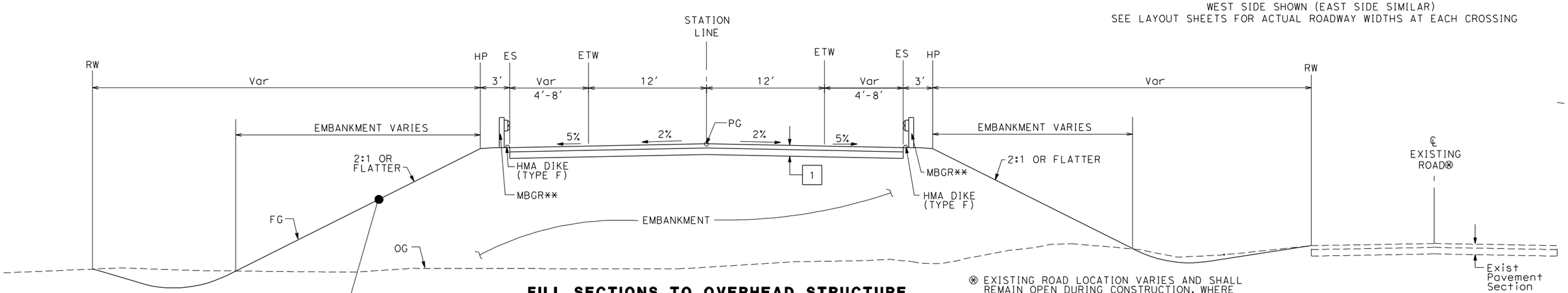
1 — HMA TYPE A
AB CLASS 2

2 — CAST IN PLACE / PRESTRESSED BOX GIRDER (6' STRUCTURE DEPTH)



EXISTING LOCAL ROAD

WEST SIDE SHOWN (EAST SIDE SIMILAR)
SEE LAYOUT SHEETS FOR ACTUAL ROADWAY WIDTHS AT EACH CROSSING

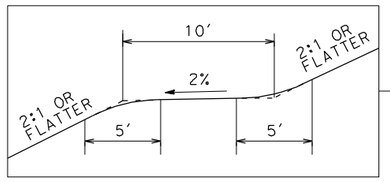


FILL SECTIONS TO OVERHEAD STRUCTURE

WEST SIDE SHOWN (EAST SIDE SIMILAR)

⊛ EXISTING ROAD LOCATION VARIES AND SHALL REMAIN OPEN DURING CONSTRUCTION. WHERE SHOWN ON THE PLAN CLOSE AND OBLITERATE EXISTING ROADWAY SUBSEQUENT TO CONSTRUCTION OF THE REALIGNED ROADWAY.

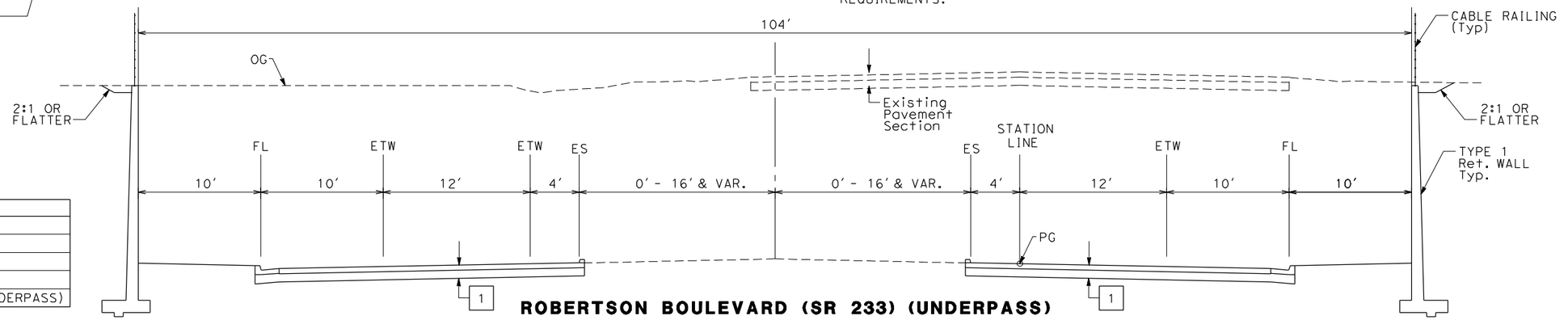
** EXACT LIMITS OF MBGR PER AGENCY REQUIREMENTS.



BENCHING DETAIL

TYPICAL CROSS SECTIONS ON THIS SHEET APPLY TO THE FOLLOWING ROADWAYS FOR ALIGNMENT A2, AVE 24 WYE OPTION & WEST CHOWCHILLA OPTION:

NO.	STREET NAME
1	SR233 (ROBERTSON BOULEVARD)
2	LE GRAND Rd
3	E. SANDY MUSH ROAD
4	AVENUE 8
5	SR 233 (ROBERTSON BOULEVARD UNDERPASS)



ROBERTSON BOULEVARD (SR 233) (UNDERPASS)

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. OAKS
DRAWN BY K. OAKS
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

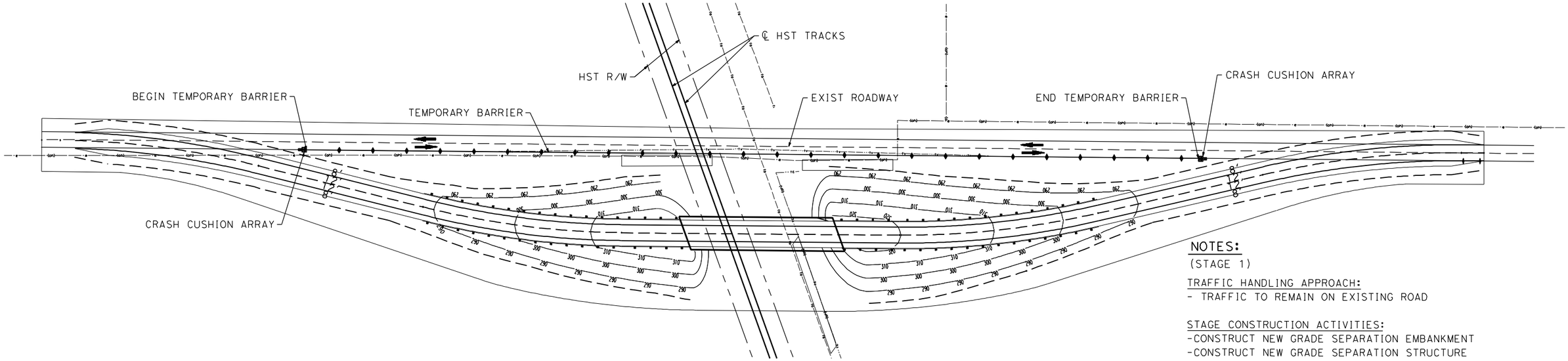
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
HYBRID
HIGHWAY
TYPICAL CROSS SECTIONS
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CT7190-B
SCALE NTS
SHEET NO. ### OF ###

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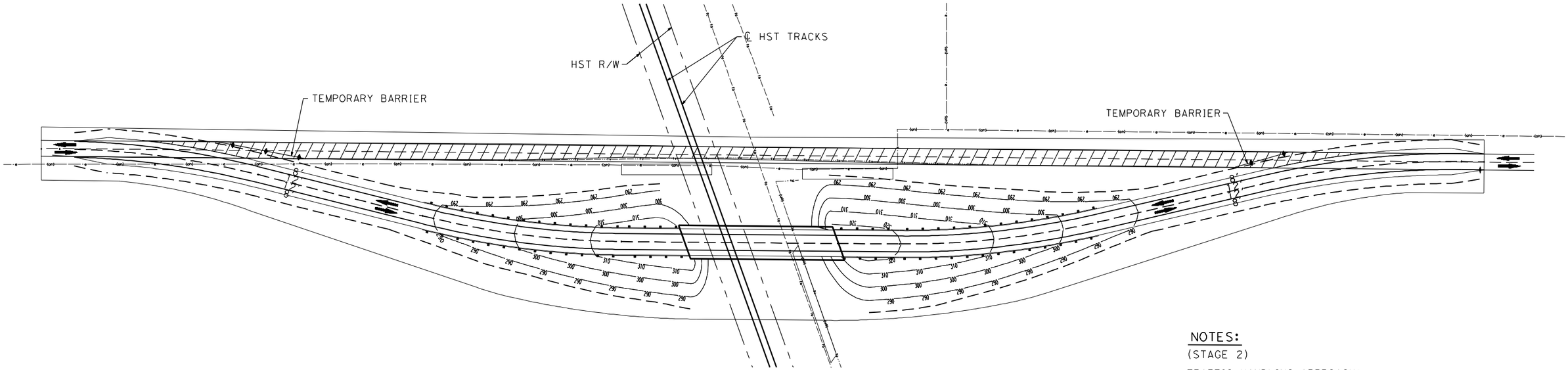


STAGE CONSTRUCTION (STAGE 1)

NOTES:
(STAGE 1)

TRAFFIC HANDLING APPROACH:
- TRAFFIC TO REMAIN ON EXISTING ROAD

STAGE CONSTRUCTION ACTIVITIES:
-CONSTRUCT NEW GRADE SEPARATION EMBANKMENT
-CONSTRUCT NEW GRADE SEPARATION STRUCTURE
-CONSTRUCT DRAINAGE FACILITY



STAGE CONSTRUCTION (STAGE 2)

NOTES:
(STAGE 2)

TRAFFIC HANDLING APPROACH:
- SHIFT TRAFFIC TO NEW GRADE SEPARATION FACILITY

STAGE CONSTRUCTION ACTIVITIES:
-CONSTRUCT REALIGNED ROAD CONFORMS
-COMPLETE DRAINAGE FACILITIES
-REMOVE SURFACE AND BASE OF EXIST ROAD

LEGEND

- CRASH CUSHION ARRAY (TYPE U11)
- TEMPORARY BARRIER (TYPE K)
- DIRECTION OF TRAVEL
- REMOVE BASE AND SURFACING (EXIST ROAD)

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: S. WONG
DRAWN BY: F. DEMARCO
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

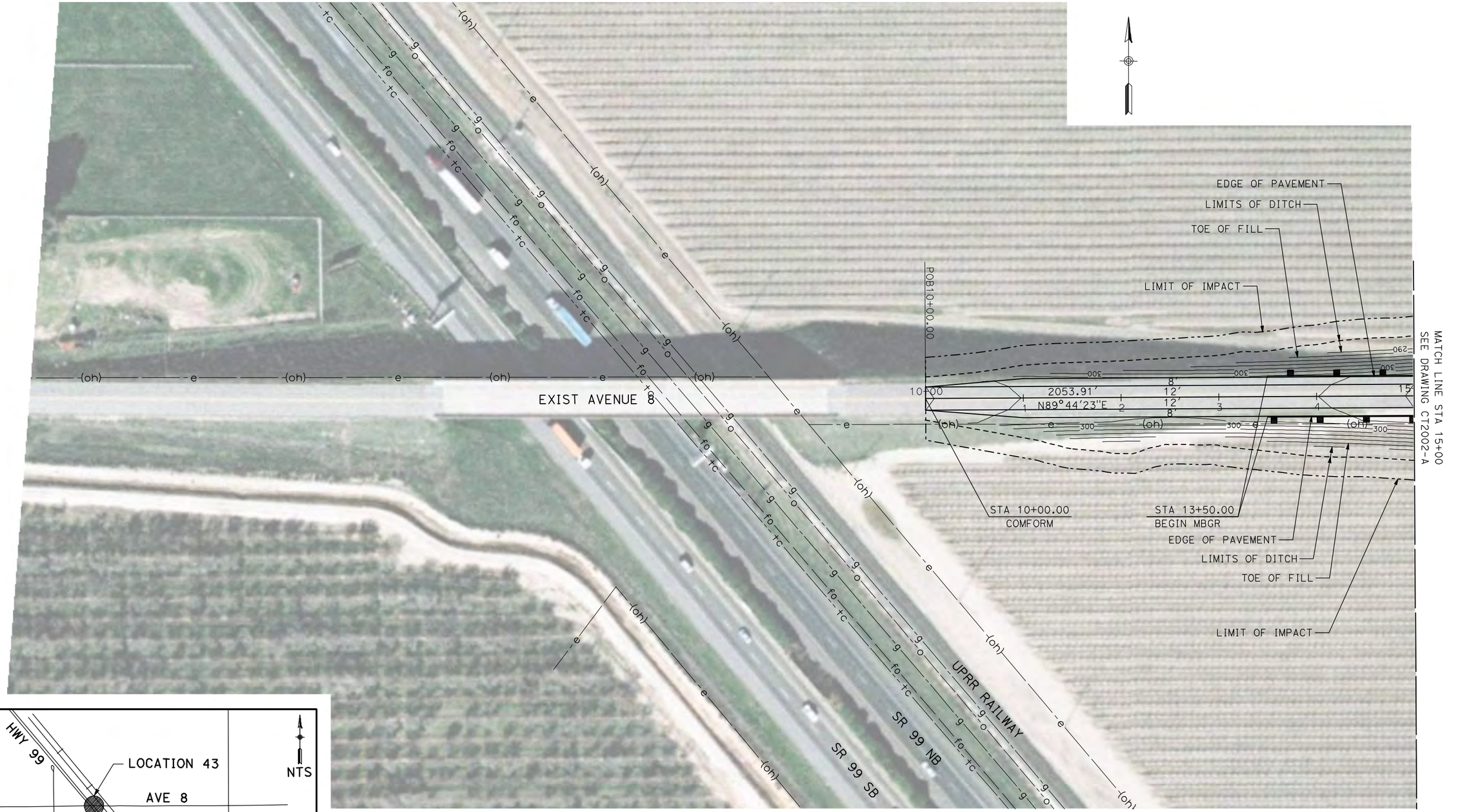
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

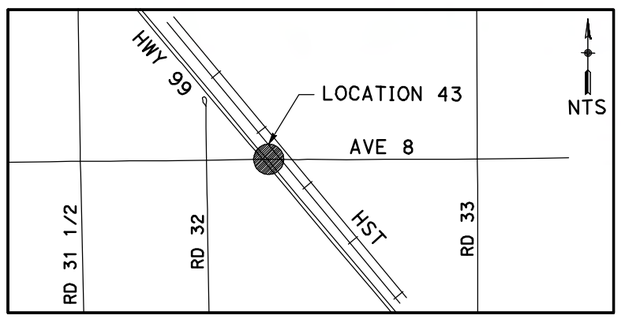
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
HYBRID

GENERAL STAGE CONSTRUCTION AND TRAFFIC PLAN
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CT7192-B
SCALE NO SCALE
SHEET NO. ### OF ###

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NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT3001-A THROUGH CT3003-A.

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: R. GIBSON
DRAWN BY: H. PHAN
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

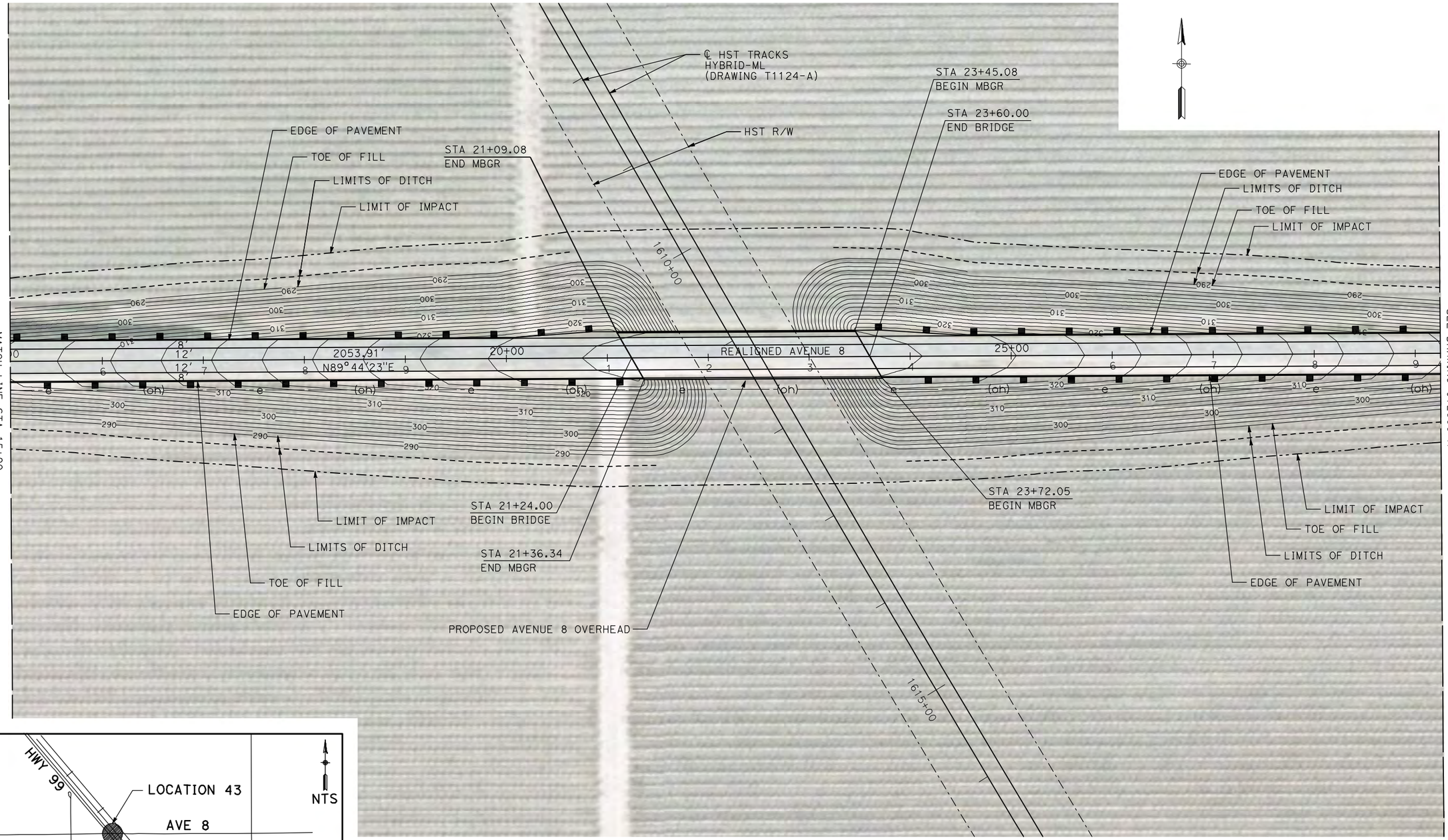
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

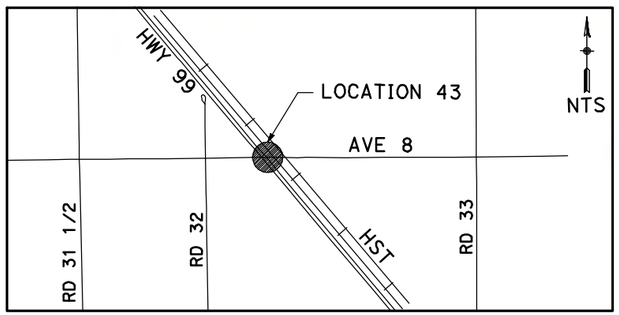
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAINLINE - HYBRID
GRADE SEPARATION - AVENUE 8
LAYOUT
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT2001-A
SCALE AS SHOWN
SHEET NO. OF ###

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GibsonR1





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT3001-A THROUGH CT3003-A.

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: R. GIBSON
DRAWN BY: H. PHAN
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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2020 L Street, Suite 300
Sacramento, CA 95811

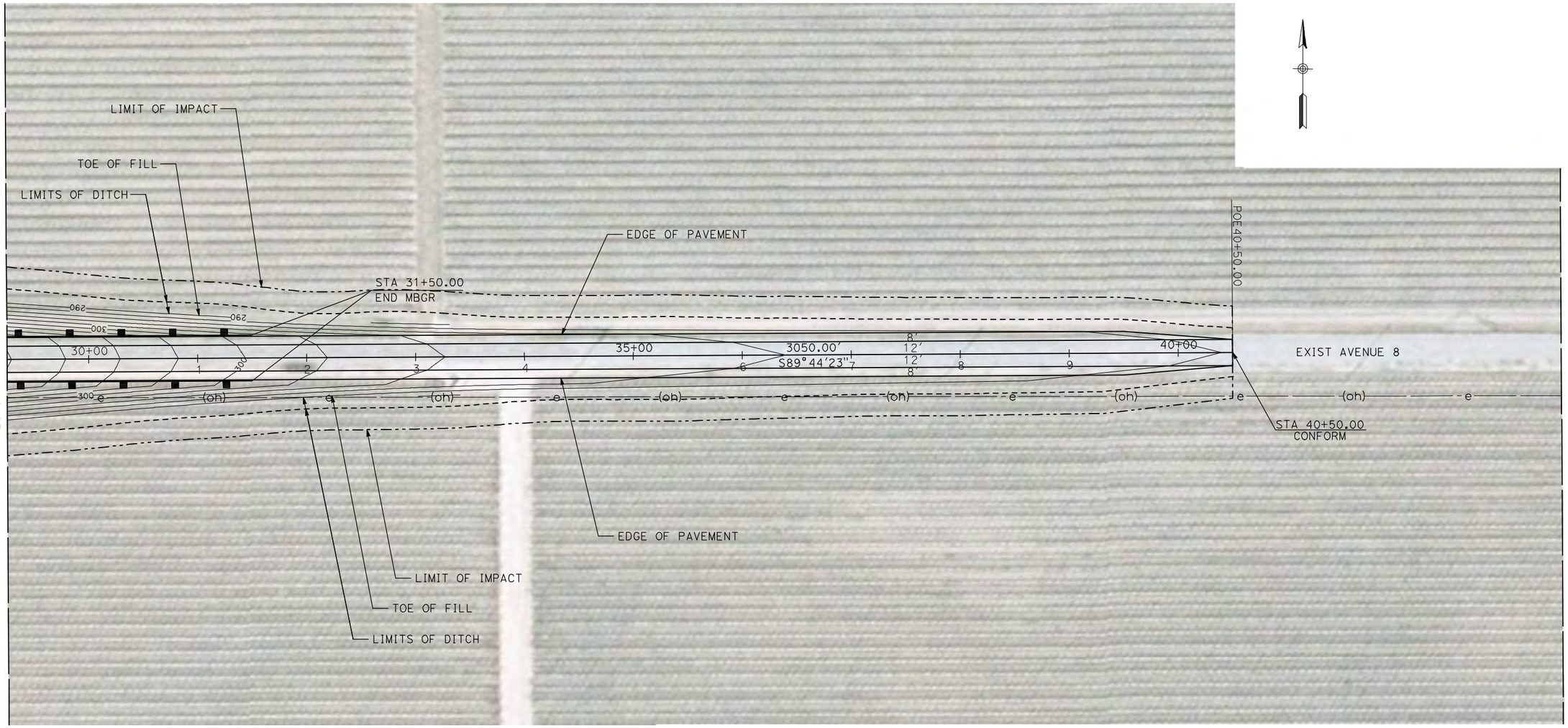
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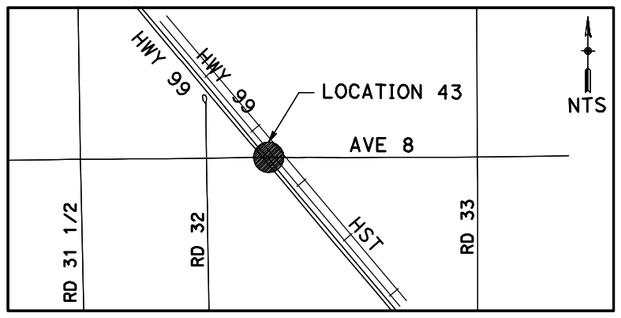
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAINLINE - HYBRID
GRADE SEPARATION - AVENUE 8
LAYOUT
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT2002-A
SCALE AS SHOWN
SHEET NO. OF ###





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT3001-A THROUGH CT3003-A.

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

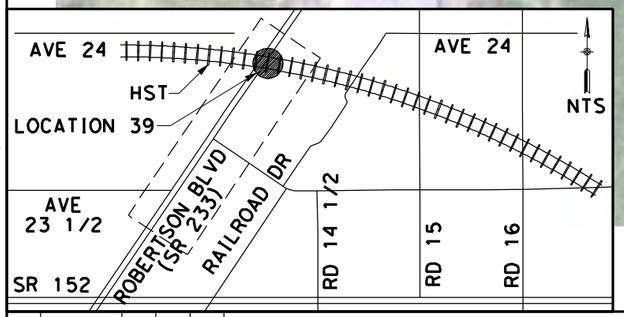
BNSF MAIN LINE - HYBRID
GRADE SEPARATION - AVENUE 8
LAYOUT
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT2003-A
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ayeled





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8200-B THROUGH CT8203-B

CURVE DATA

No.	R	Δ	T	L	V
(1)	3000.00	10°10'00"	266.86	532.33	55 MPH
(2)	3000.00	10°10'00"	266.86	532.33	55 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAINLINE/MERCED DO - (HYBRID)
GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1
LAYOUT
SHEET 1 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT7200-B
SCALE AS SHOWN
SHEET NO. ### OF ###

℄ HST TRACKS
A2-24MCDO (SEE DRAWING T2380-A)

HST R/W

℄ HST TRACKS
HYBRID (SEE DRAWING T1099-A)

℄ HST TRACKS
A2-24MCDO (SEE DRAWING T2360-A)

RETAINING WALL

PROPOSED SR233 OVERHEAD

LIMIT OF IMPACT

TOE OF FILL

LIMITS OF DITCH

LIMIT OF IMPACT

TOE OF FILL

EDGE OF PAVEMENT

LIMITS OF DITCH

STA 171+48.17
BEGIN BRIDGE

ST5080+47.49

ST5080+29.02

STA 174+91.64
BEGIN MBGR

STA 174+91.64
END BRIDGE

MBGR

SEE DRAWING CT7200-B
MATCH LINE STA 164+00

SEE DRAWING CT7202-B
MATCH LINE STA 178+00

REALIGNED ROBERTSON BOULEVARD (SR 233)

10'
12'
12'
10'

1500.49'
N34°18'12"E

SC5078+08.01

MBGR

EXIST ROBERTSON BLVD (SR 233)
TO SERVE AS POTENTIAL PRIVATE PROPERTY ACCESS

TOE OF FILL

LIMITS OF DITCH

STA 171+48.17
END MBGR

LIMIT OF IMPACT

R=50'

RETAINING WALL

REMOVE BASE & SURFACING

TOE OF FILL

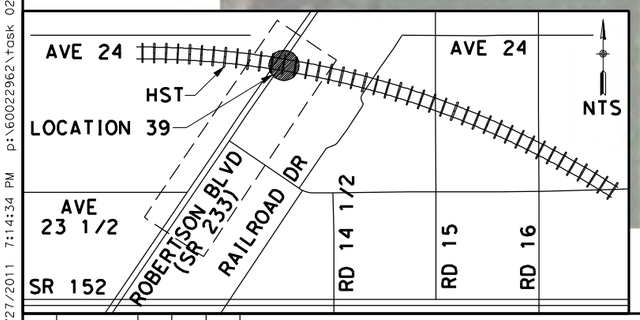
LIMITS OF DITCH

R=50'

SC5074+00.46

NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8200-B THROUGH CT8203-B



CURVE DATA

No.	R	Δ	T	L	V
(2)	3000.00	10°10'00"	266.86	532.33	55 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

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CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

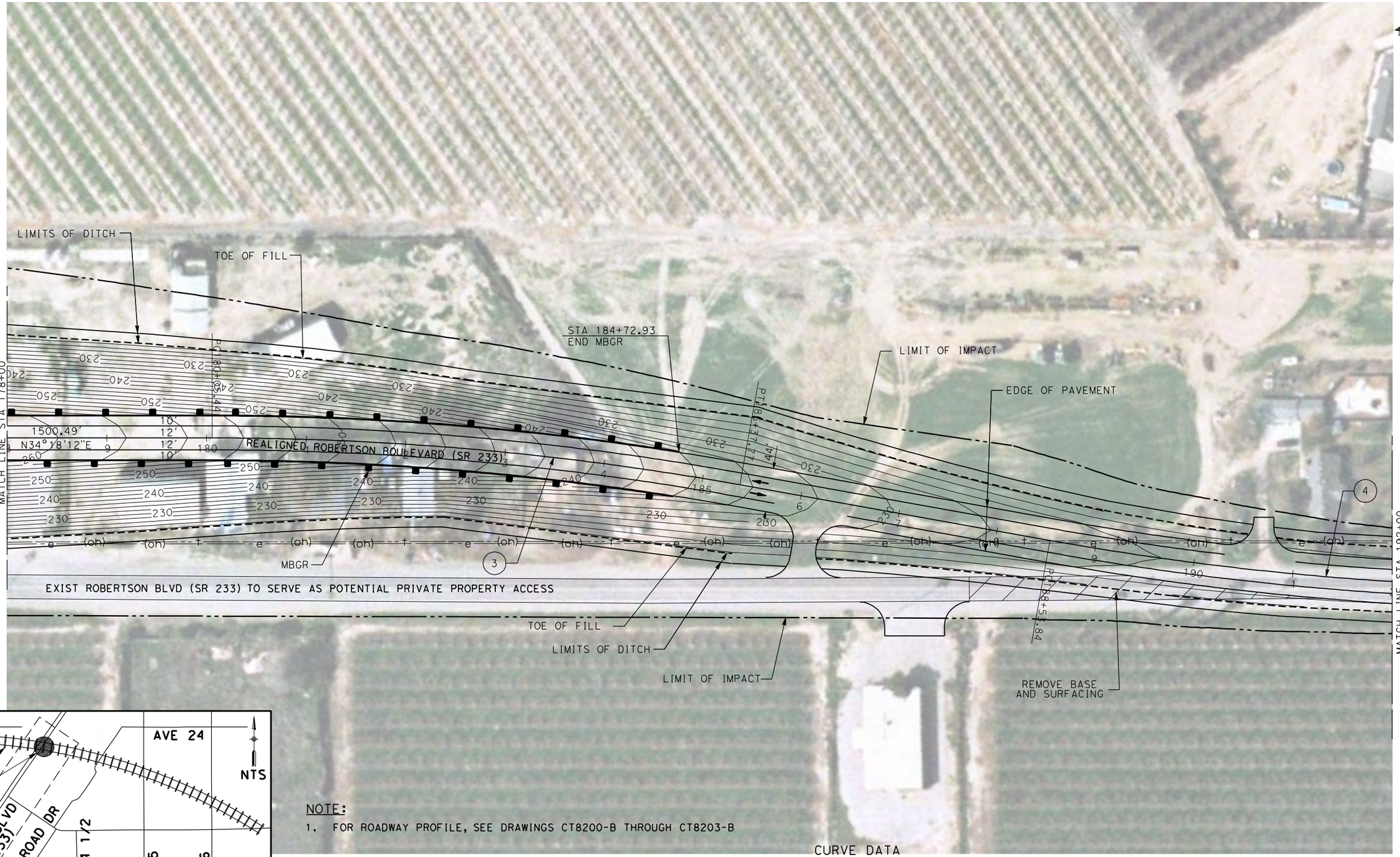
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

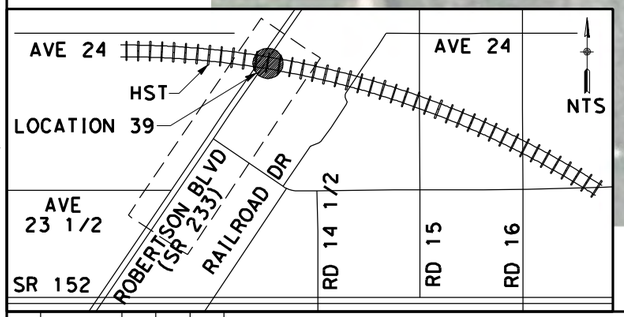
BNSF MAINLINE/MERCED DO - (HYBRID)
GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1
LAYOUT
SHEET 2 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT7201-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8200-B THROUGH CT8203-B

CURVE DATA

No.	R	Δ	T	L	V
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(4)	3000.00	10°10'00"	266.86	532.33	55 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

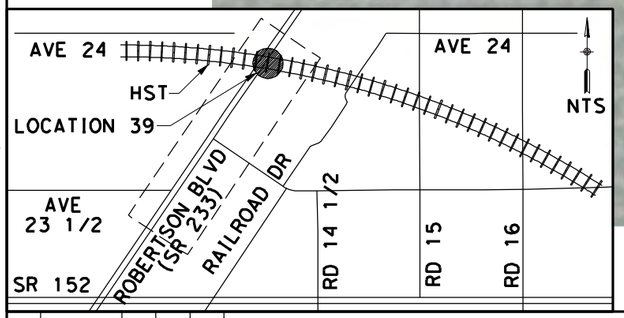
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAINLINE/MERCED DO - (HYBRID)
GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1
LAYOUT
SHEET 3 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT7202-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8200-B THROUGH CT8203-B

CURVE DATA

No.	R	Δ	T	L	V
4	3000.00	10°10'00"	266.86	532.33	55 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

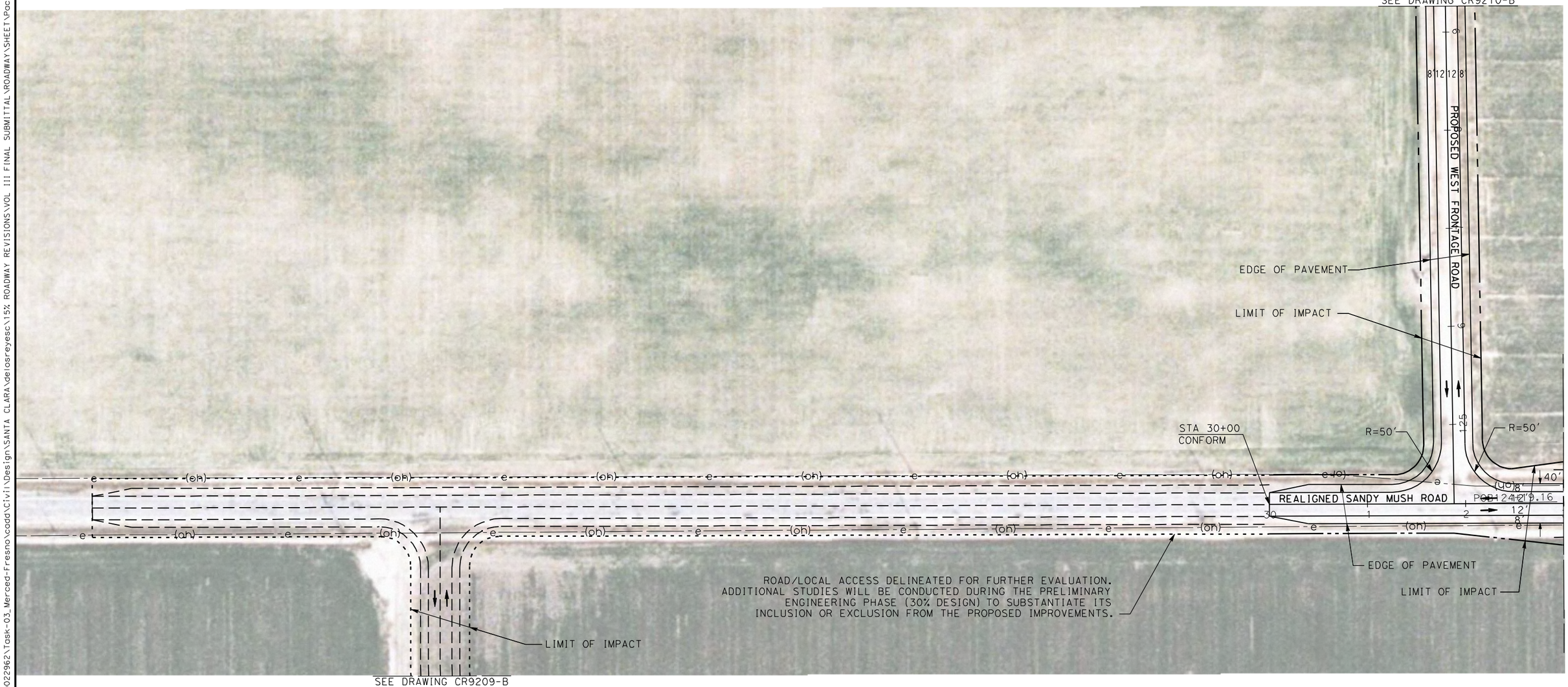
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

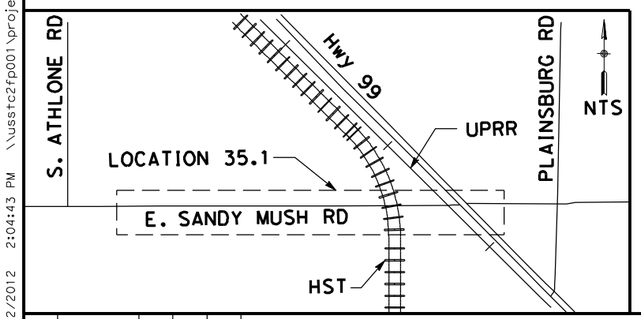
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAINLINE/MERCED DO - (HYBRID)
GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1
LAYOUT
SHEET 4 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT7203-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8204-B THROUGH CT8207-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

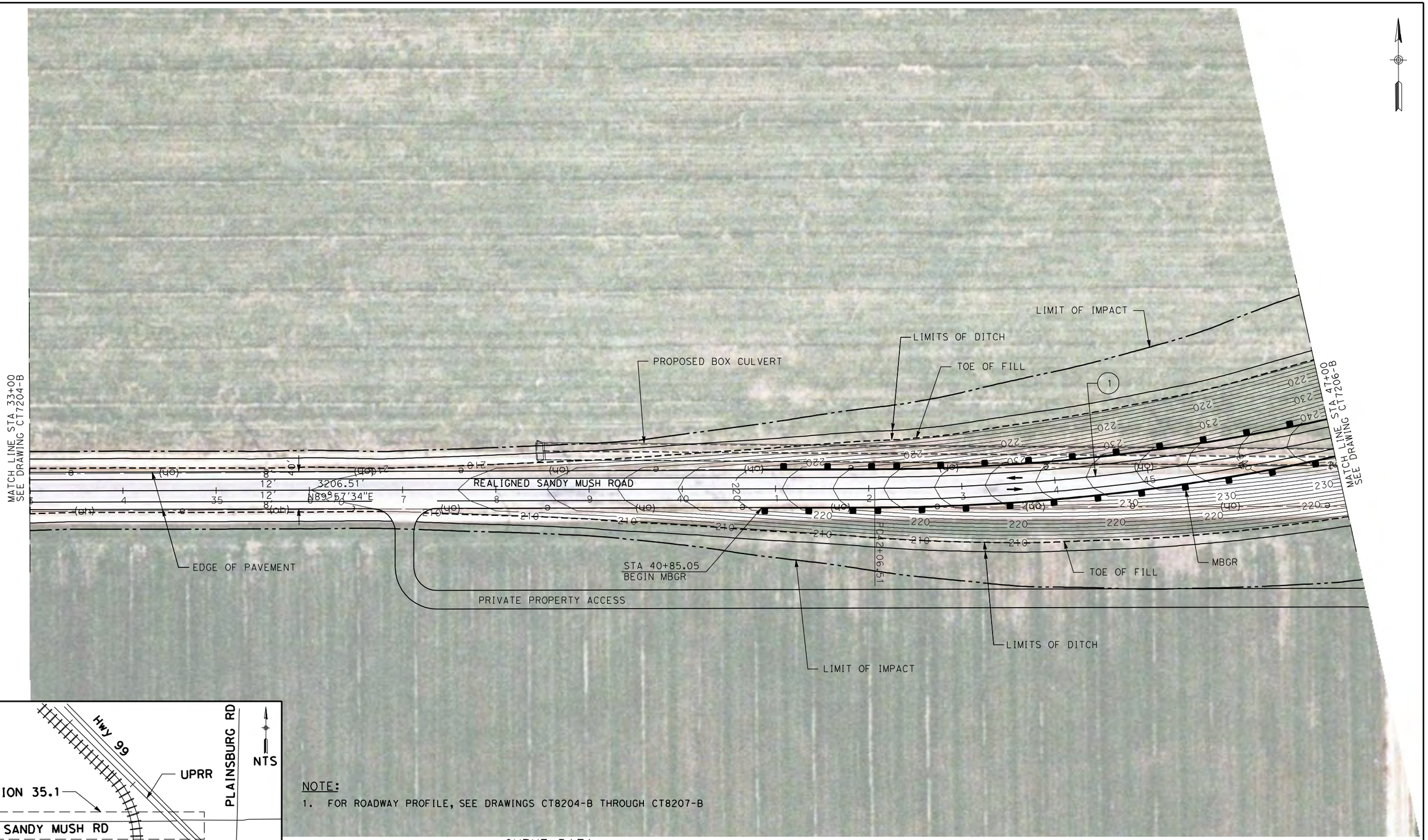
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Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

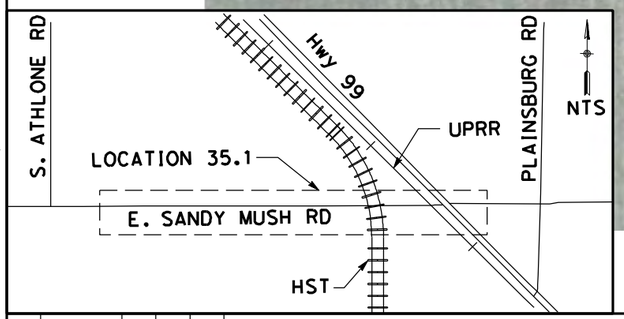
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED DO - (HYBRID)
SANDY MUSH RD INTERCHANGE
LAYOUT
SHEET 1 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT7204-B
SCALE AS SHOWN
SHEET NO. ### OF ###





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8204-B THROUGH CT8207-B

CURVE DATA

No.	R	Δ	T	L	V
(1)	2300.00	50°8'26"	833.94	1600.06	50 MPH

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

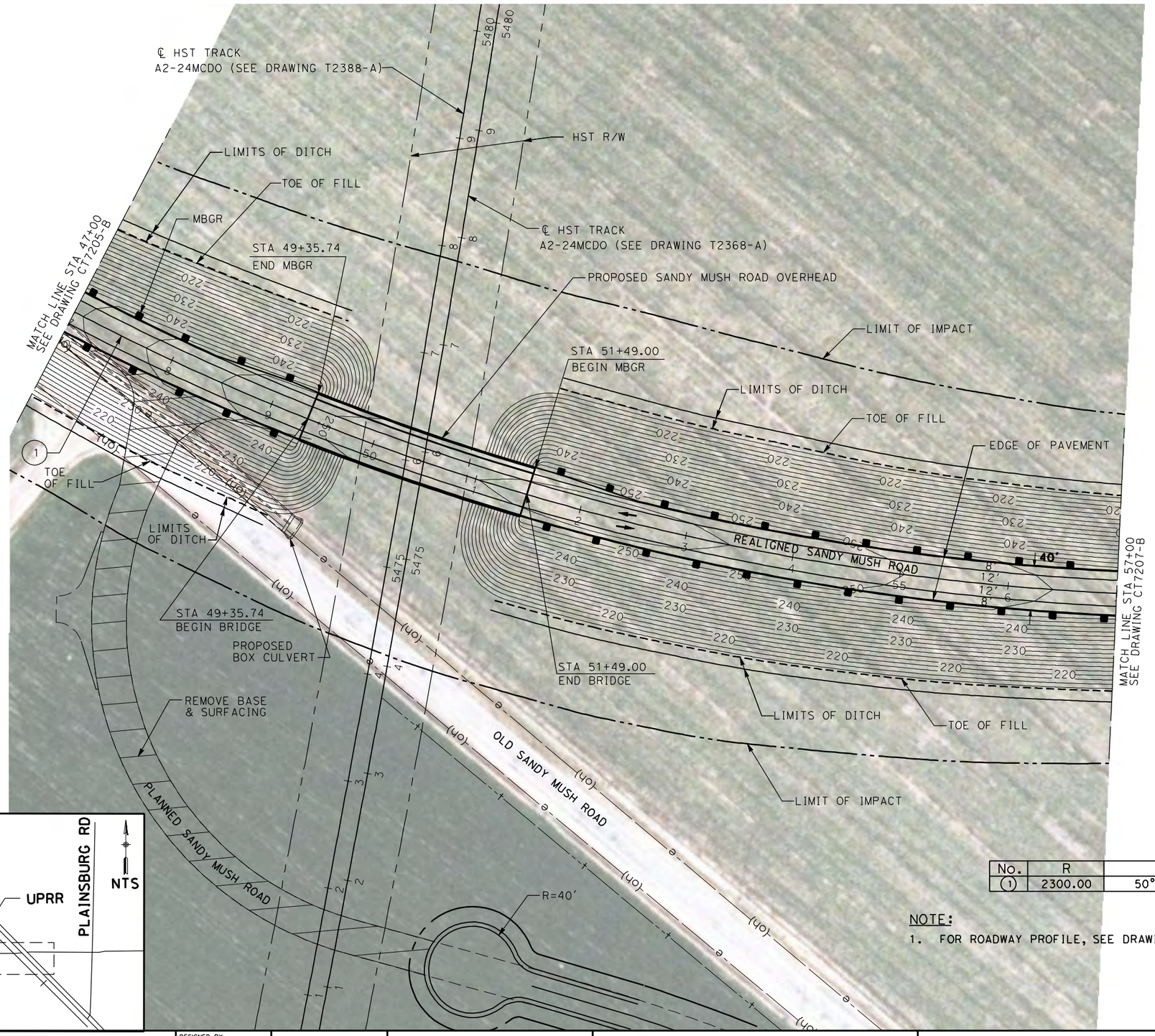
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

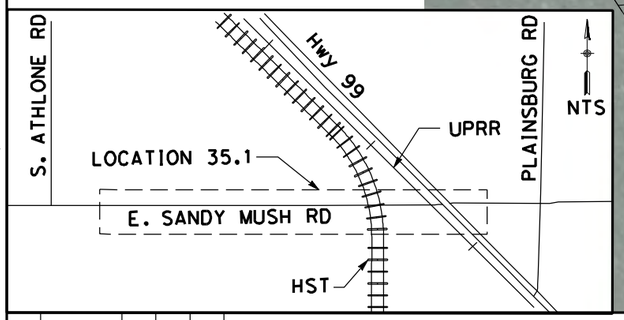
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED DO - (HYBRID)
SANDY MUSH RD INTERCHANGE
LAYOUT
SHEET 2 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT7205-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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CURVE DATA

No.	R	Δ	T	L	V
(1)	2300.00	50°8'26"	833.94	1600.06	50 MPH

NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8204-B THROUGH CT8207-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

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Sacramento, CA 95811
CH2MHILL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MERCED DO - (HYBRID)
SANDY MUSH RD INTERCHANGE
LAYOUT
SHEET 3 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT7206-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDITIONAL STUDIES WILL BE CONDUCTED DURING THE PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPROVEMENTS.

LIMIT OF IMPACT

LIMITS OF DITCH

EDGE OF PAVEMENT

TOE OF FILL

STA 60+00
CONFORM

MATCH LINE STA 57+00
SEE DRAWING CT7206-B

12' REALIGNED SANDY MUSH ROAD

N50°6'0"E

TOE OF FILL

MBGR

STA 60+00
END MBGR

LIMITS OF DITCH

LIMIT OF IMPACT

SEE CONTRACT
NO. 10-415804

SEE DRAWING CR9201-B

POE 152+71.99

FRONTAGE ROAD (PER CONTRACT 10-415804
FUTURE CALTRANS FACILITY, BY OTHERS)

LIMIT OF IMPACT

SANDY MUSH ROAD OH STRUCTURE TO REMAIN
PER CONTRACT NO. 10-415804
(FUTURE CALTRANS FACILITY, BY OTHERS)

LIMIT OF IMPACT

SR99 SB OFF-RAMP
(PER CONTRACT NO. 10-415804)
(FUTURE CALTRANS FACILITY, BY OTHERS)

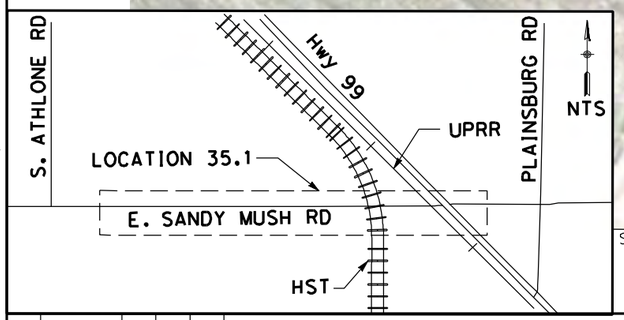
SR99 SB PER CONTRACT 10-415804
(FUTURE CALTRANS FACILITY, BY OTHERS)

SR99 NB PER CONTRACT 10-415804
(FUTURE CALTRANS FACILITY, BY OTHERS)

SANDY MUSH ROAD PER CONTRACT NO. 10-415804
(FUTURE CALTRANS FACILITY, BY OTHERS)

SR99 SB ON-RAMP
(PER CONTRACT NO. 10-415804)
(FUTURE CALTRANS FACILITY, BY OTHERS)

NO.	R	Δ	T	L	V
1	2300.00	50°8'26"	833.94	1600.06	50 MPH



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8204-B THROUGH CT8207-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

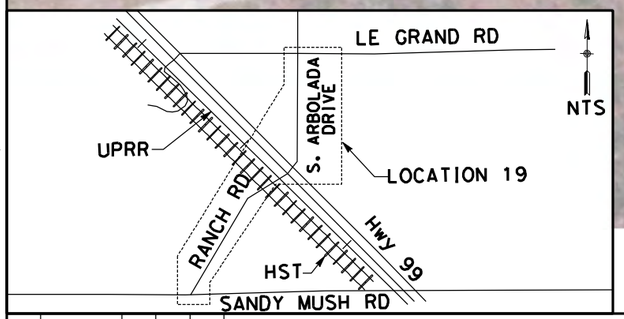
UPRR/SR99 MERCED DO - (HYBRID)
SANDY MUSH RD INTERCHANGE
LAYOUT
SHEET 4 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT7207-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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oyeled





NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8208-B THROUGH CT8212-B

CURVE DATA

No.	R	Δ	T	L
(1)	3000.00	14°17'14"	375.99	748.07

50 0 50 100
1" = 50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

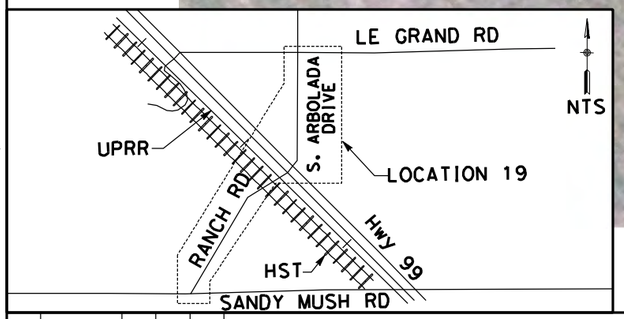
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED - (HYBRID)
GRADE SEPARATION - LE GRAND RD INTERCHANGE
LAYOUT
SHEET 1 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT7208-B
SCALE AS SHOWN
SHEET NO. ### OF ###





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8208-B THROUGH CT8212-B

50 0 50 100
1" = 50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

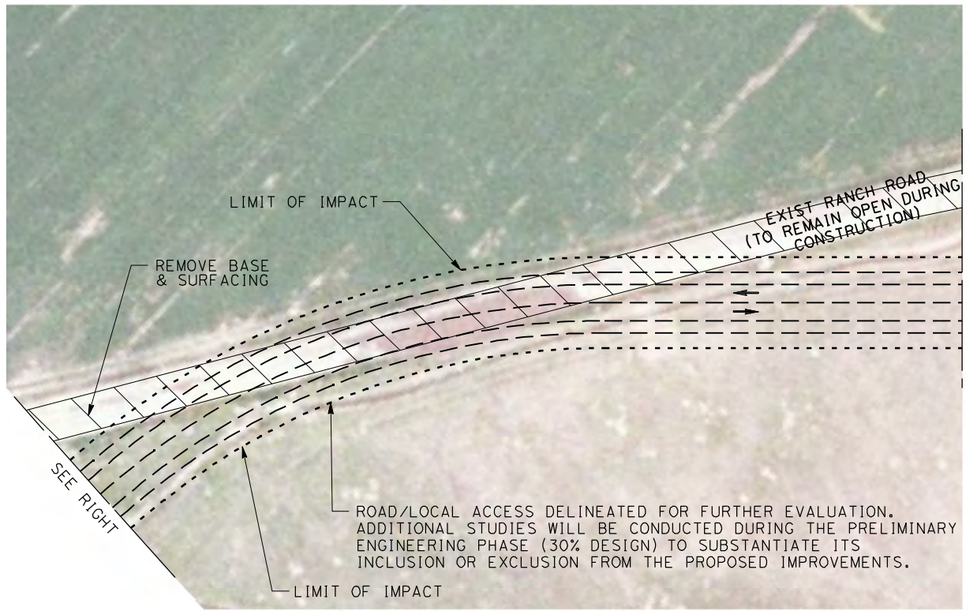
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

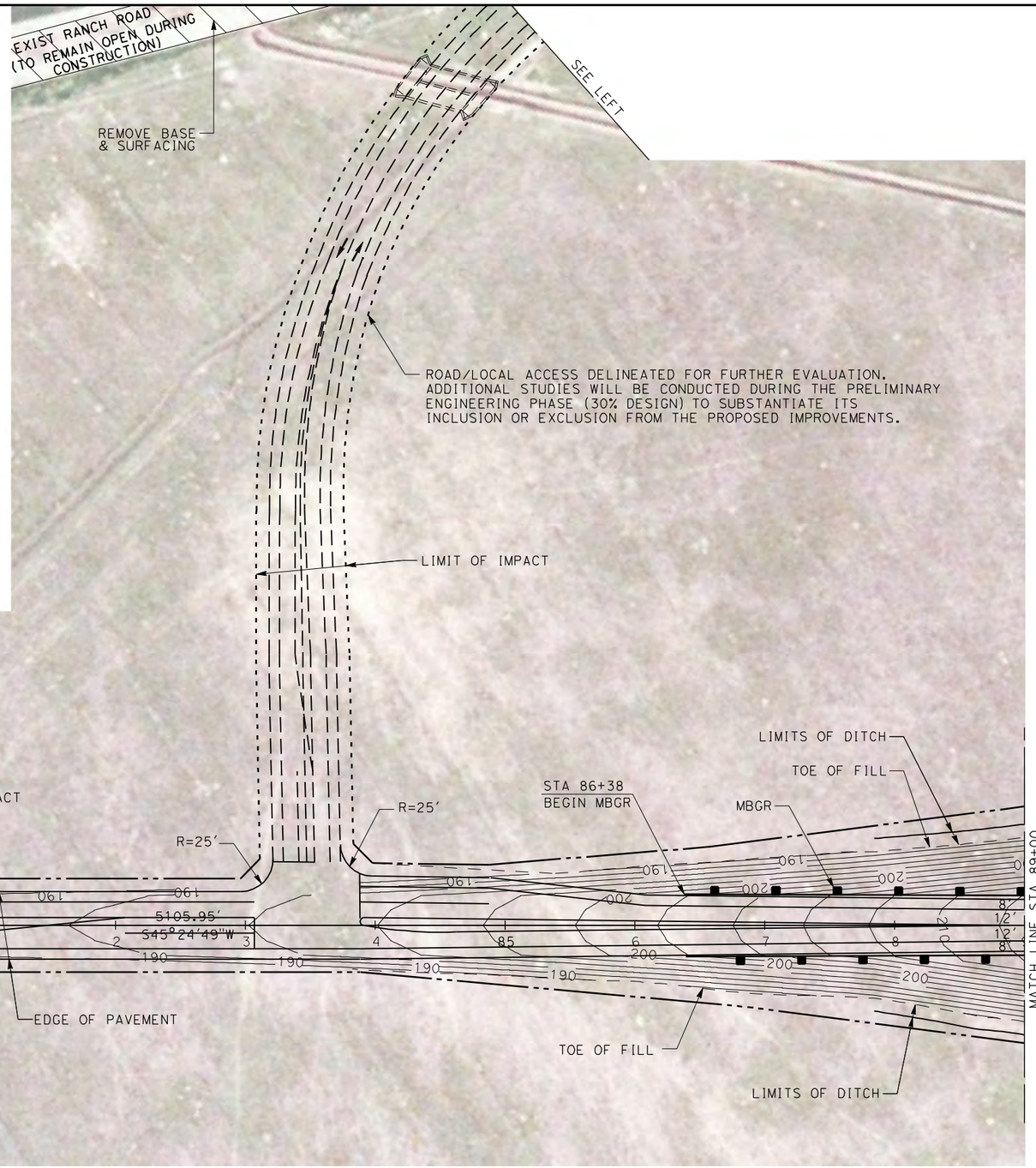
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

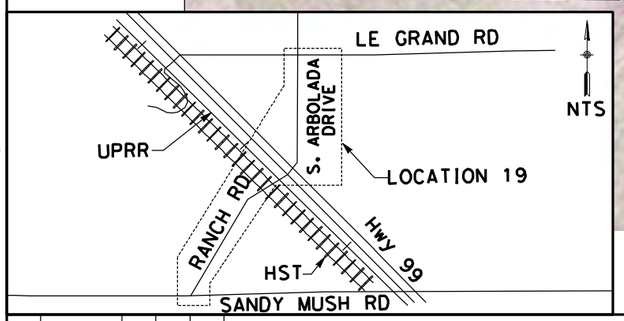
UPRR/SR99 MERCED - (HYBRID)
GRADE SEPARATION - LE GRAND RD INTERCHANGE
LAYOUT
SHEET 2 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT7209-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8127-B THROUGH CT8131-B

50 0 50 100

1" = 50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED - (HYBRID)
GRADE SEPARATION - LE GRAND RD INTERCHANGE
LAYOUT
SHEET 3 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT7210-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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SEE DRAWING CR9205-B

HST R/W

UPRR R/W

LIMITS OF DITCH

TOE OF FILL

LIMIT OF IMPACT

℄ HST TRACKS
A2-21MC (SEE DRAWING T2219-A)

STA 95+13.54
BEGIN BRIDGE

MBGR

EDGE OF PAVEMENT

MATCH LINE STA 89+00
SEE DRAWING CT7210-B

REALIGNED RANCH ROAD

5105.95'
S45°24'49"W

STA 95+13.54
END MBGR

LIMIT OF IMPACT

PROPOSED BOX CULVERT

TOE OF FILL

LIMITS OF DITCH

ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION.
ADDITIONAL STUDIES WILL BE CONDUCTED DURING THE PRELIMINARY
ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS
INCLUSION OR EXCLUSION FROM THE PROPOSED IMPROVEMENTS.

FRONTAGE ROAD PER
CONTRACT 10-415704
(FUTURE CALTRANS
FACILITY, BY OTHERS)

LIMIT OF IMPACT

REMOVE CURB RETURN FROM CONTRACT
NO. 10-415704

TOE OF FILL

MBGR

STA 101+28.21
BEGIN MBGR

REALIGNED LE GRAND ROAD

MATCH LINE STA 103+00
SEE DRAWING CT7212-B

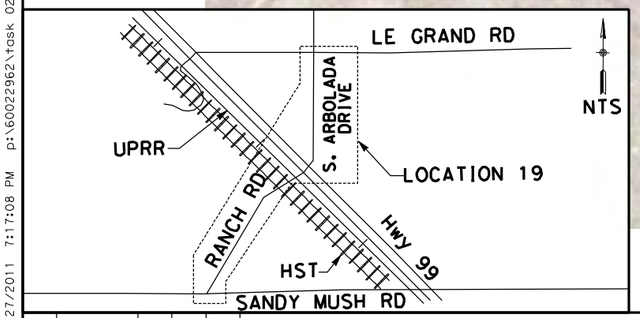
STA 101+28.21
END BRIDGE

TOE OF FILL

LIMIT OF IMPACT

PROPOSED LE GRAND ROAD OVERHEAD

SEE DRAWING CR9205-B



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8208-B THROUGH CT8212-B

50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MERCED - (HYBRID)
GRADE SEPARATION - LE GRAND RD INTERCHANGE
LAYOUT
SHEET 4 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT7211-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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MATCH LINE STA 26+00
SEE DRAWING CT7214-B

TOE OF FILL

TOE OF FILL

3

PC24+70.42

SR99 SB OFF-RAMP

LIMIT OF IMPACT

LIMIT OF IMPACT

STA 108+89.10
END MBGR

TOE OF FILL

MBGR

STA 105+79.50
BEGIN MBGR

MBGR

MATCH LINE STA 103+00
SEE DRAWING CT7211-B

194.31'

N44°55'12"W

32'

REALIGNED LE GRAND ROAD

POB22+40.11

5105.95'

S45°24'49"W

105 4 6 7 8 9 110 1 2 3 4 115 6 7

SR99 SB PER CONTRACT 10-415704
(FUTURE CALTRANS FACILITY, BY OTHERS)

CONFORM
EB "LE GRAND" 110+38.28

SR99 NB PER CONTRACT 10-415704
(FUTURE CALTRANS FACILITY, BY OTHERS)

SR99 NB ON-RAMP
PER CONTRACT 10-415704
(FUTURE CALTRANS FACILITY, BY OTHERS)

LE GRAND RD
(PER CONTRACT NO. 10-415704)

STA 104+79.68
END MBGR

EDGE OF PAVEMENT

STA 108+89.10
BEGIN BRIDGE

N51°42'26"W

LIMIT OF IMPACT

TOE OF FILL

24'

SR99 SB ON-RAMP

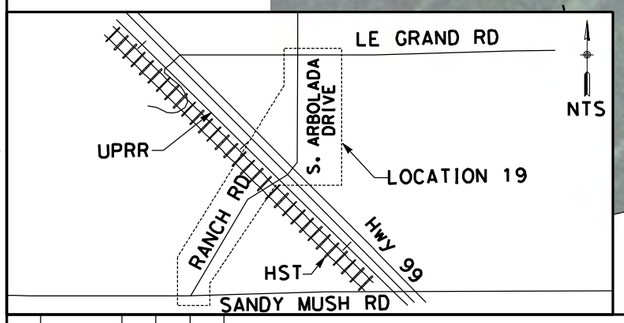
TOE OF FILL

MATCH LINE STA 18+00
SEE DRAWING CT7213-B

SR99 NB OFF-RAMP
PER CONTRACT 10-415704
(FUTURE CALTRANS FACILITY, BY OTHERS)

CURVE DATA

No.	R	Δ	T	L
3	850.00	20°27'07"	153.34	303.41



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8208-B THROUGH CT8212-B

50 0 50 100
1" = 50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED - (HYBRID)
GRADE SEPARATION - LE GRAND RD INTERCHANGE
LAYOUT
SHEET 5 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT7212-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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PER CONTRACT NO. 10-415704

(FUTURE CALTRANS FACILITY, BY OTHERS)

STA 7+55.19

PCC1+90.06

PCC4+90.06

PCC7+76.45

PT13+56.13

LIMIT OF IMPACT

TOE OF FILL

SR99 SB ON-RAMP

778'

147°42'26"

36'

24'

8'

EDGE OF PAVEMENT

TOE OF FILL

LIMIT OF IMPACT

SR99 SB PER CONTRACT NO. 10-415704
(FUTURE CALTRANS FACILITY, BY OTHERS)

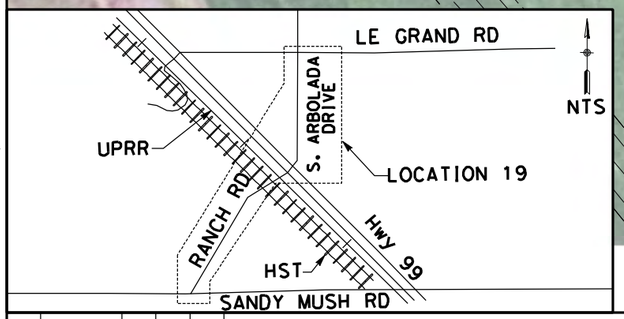
SR99 NB PER CONTRACT NO. 10-415704
(FUTURE CALTRANS FACILITY, BY OTHERS)

SR99 NB OFF-RAMP

PER CONTRACT NO. 10-415704
(FUTURE CALTRANS FACILITY, BY OTHERS)

SEE CONTRACT NO. 10-415704

MATCH LINE STA 18+00
SEE DRAWING CT7212-B



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8213-B THROUGH CT8216-B

CURVE DATA

No.	R	Δ	T	L
(1)	3000.00	5°31'37"	144.81	289.39
(2)	850.00	17°23'25"	290.57	576.68

50 0 50 100
1" = 50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

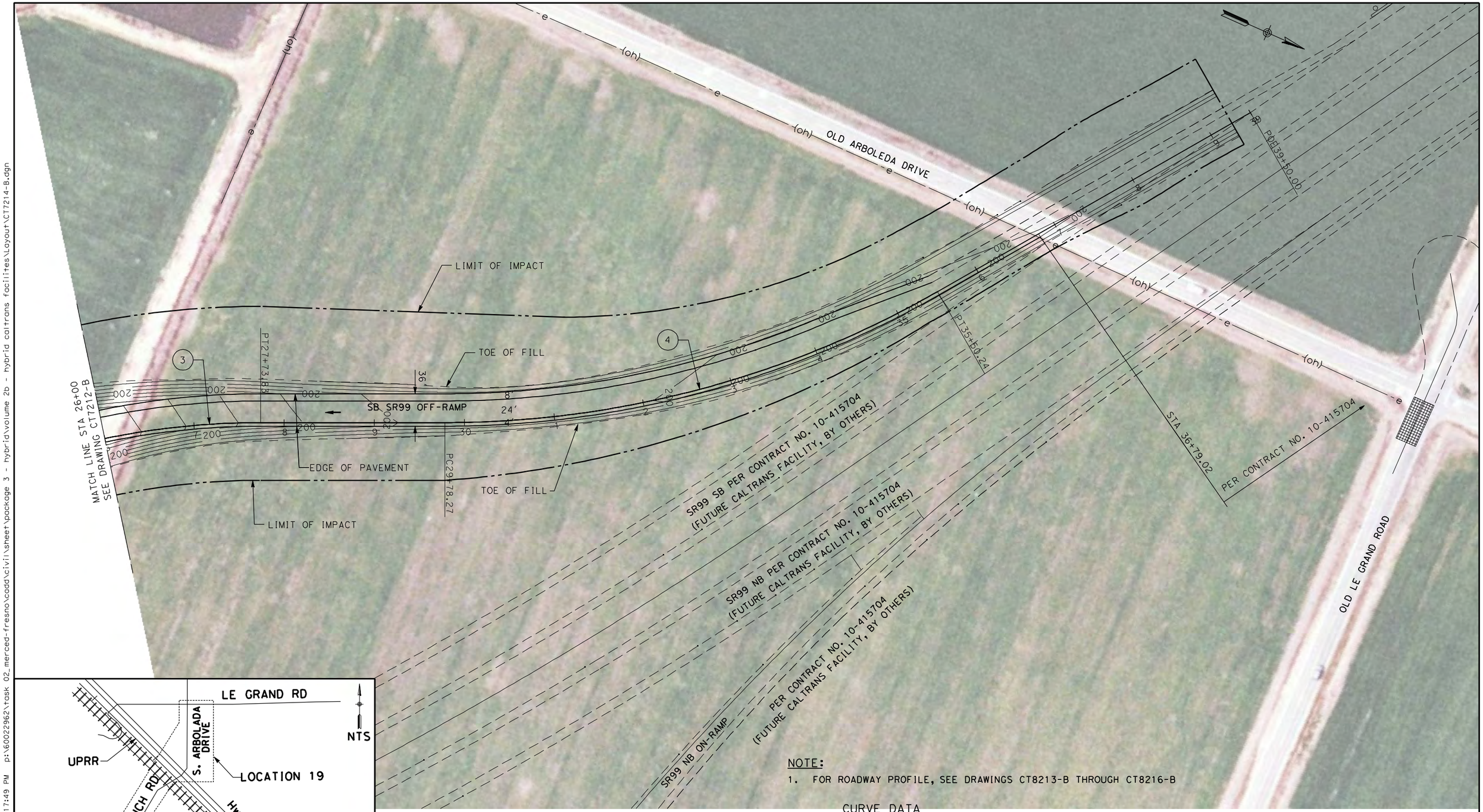
UPRR/SR99 MERCED - (HYBRID)
GRADE SEPARATION-LE GRAND RD IC SR99 SB ON-RAMP
LAYOUT
SHEET 1 OF 2

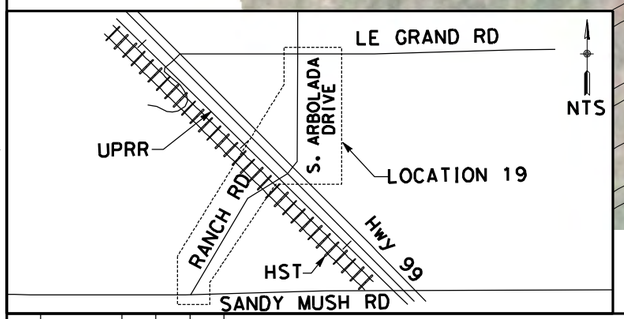
CONTRACT NO. HSR06-007
DRAWING NO. CT7213-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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4/27/2011 7:17:49 PM ayeled





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8213-B THROUGH CT8216-B

CURVE DATA

No.	R	Δ	T	L
(3)	850.00	20°27'07"	153.34	303.41
(4)	1100.00	29°47'31"	292.61	571.97

50 0 50 100
1" = 50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

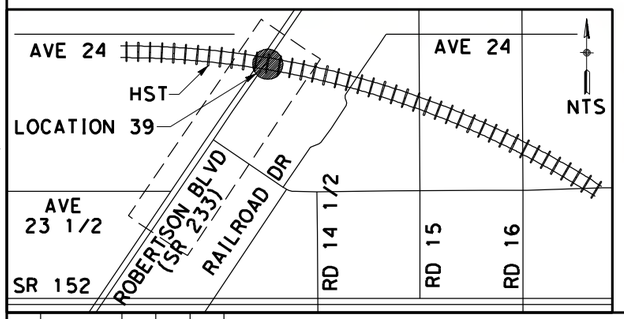
UPRR/SR99 MERCED - (HYBRID)
GRADE SEPARATION-LE GRAND RD IC SR99 SB OFF-RAMP
LAYOUT
SHEET 2 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. CT7214-B
SCALE AS SHOWN
SHEET NO. ### OF ###



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8217-B THROUGH CT8219-B



50 0 50 100

1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAINLINE / MERCED DO (HYBRID)
UNDERPASS - ROBERTSON BOULEVARD (SR 233) ALT 2
LAYOUT
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT7215-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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4/27/2011 7:18:09 PM
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HST R/W

℄ HST TRACKS
A2-24MCDO (SEE DRAWING T2380-A)

ST5080+47.49

ST5080+29.07

℄ HST TRACKS
A2-24MCDO (SEE DRAWING T2360-A)

℄ HST TRACKS
HYBRID (SEE DRAWING T1099-A)

PROPOSED SR 233
UNDERPASS

EDGE OF PAVEMENT

RETAINING WALL

LIMIT OF IMPACT

STA 1218+54.63
BEGIN BRIDGE

CS5078+27.49

CS5078+09.07

STA 5077+33.93
END BRIDGE
NORTHBOUND MCDO

STA 5077+11.55
END BRIDGE
SOUTHBOUND MCDO

PROPOSED SR 233
UNDERPASS

EDGE OF PAVEMENT

RETAINING WALL

LIMIT OF IMPACT

MATCH LINE STA 68+96.28
SEE DRAWING CT7215-B

MATCH LINE STA 82+87.46
SEE DRAWING CT7217-B

ROBERTSON BOULEVARD (SR 233)

1704.38'
N34°15'17"E

PRIVATE PROPERTY ACCESS

EDGE OF PAVEMENT

RETAINING WALL

LIMIT OF IMPACT

PROPOSED SR 233
UNDERPASS

STA 5075+83.55
BEGIN BRIDGE
SOUTHBOUND MCDO

STA 1219+82.64
END BRIDGE

STA 5076+05.93
BEGIN BRIDGE
NORTHBOUND MCDO

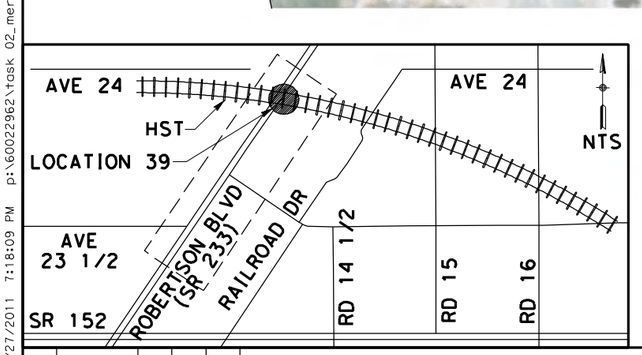
EDGE OF PAVEMENT

RETAINING WALL

LIMIT OF IMPACT

SC5074+00.46

SC5072+88.54



50 0 50 100
1"=50'

NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8217-B THROUGH CT8219-B

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

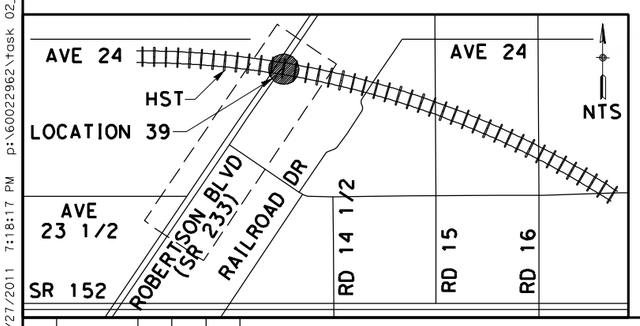
BNSF MAINLINE / MERCED DO (HYBRID)
UNDERPASS - ROBERTSON BOULEVARD (SR 233) ALT 2
LAYOUT
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT7216-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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NOTE:
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT8217-B THROUGH CT8219-B



50 0 50 100
1"=50'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
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IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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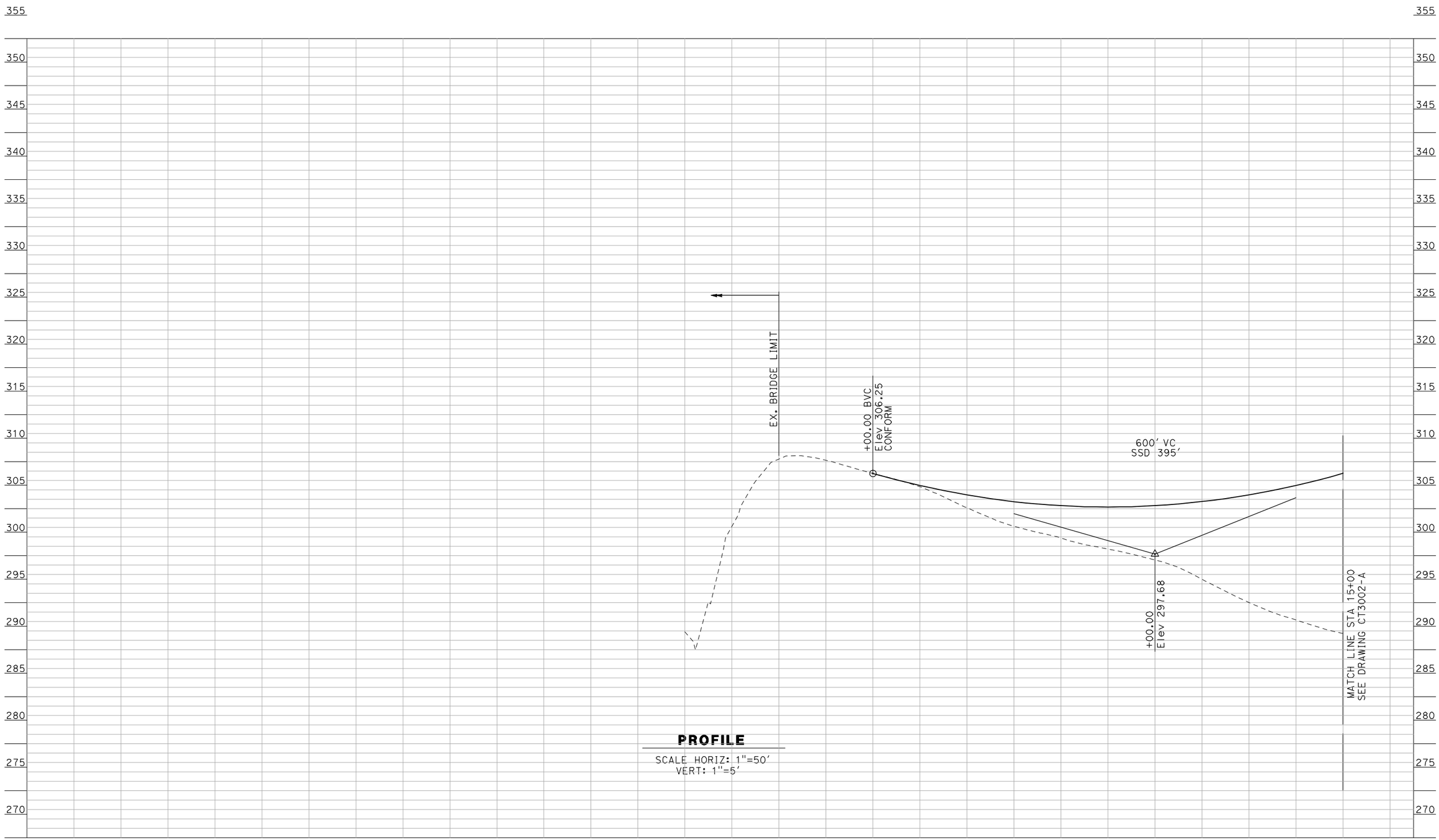
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CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAINLINE / MERCED DO (HYBRID)
UNDERPASS - ROBERTSON BOULEVARD (SR 233) ALT 2
LAYOUT
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT7217-B
SCALE AS SHOWN
SHEET NO. ### OF ###



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: R. GIBSON
DRAWN BY: F. DEMARCO
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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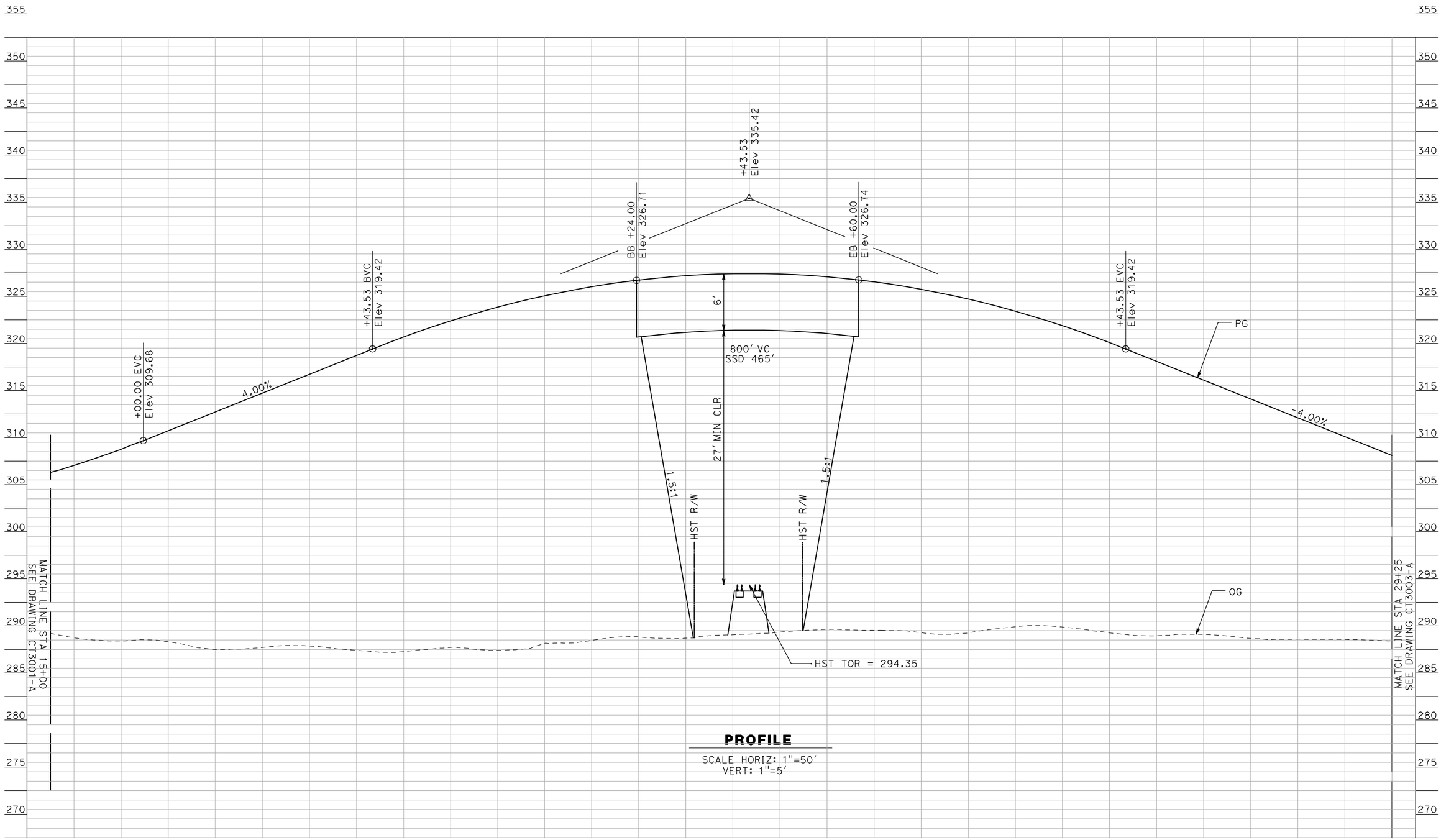
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAINLINE - HYBRID
GRADE SEPARATION - AVENUE 8
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT3001-A
SCALE AS SHOWN
SHEET NO. OF ###

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: R. GIBSON
DRAWN BY: F. DEMARCO
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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NOT FOR CONSTRUCTION

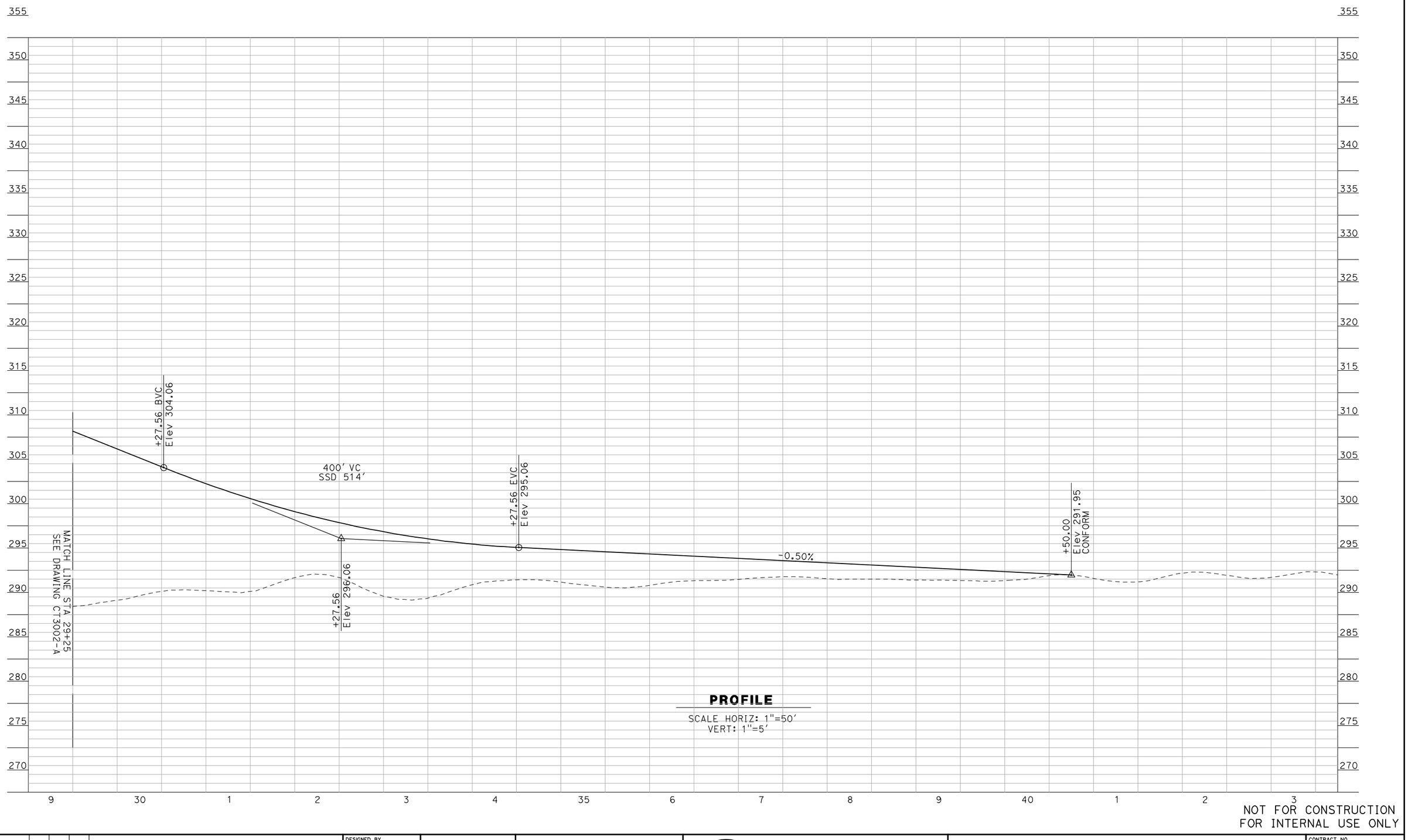
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAINLINE - HYBRID
GRADE SEPARATION - AVENUE 8
PROFILE
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT3002-A
SCALE AS SHOWN
SHEET NO. OF ###

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: R. GIBSON
DRAWN BY: F. DEMARCO
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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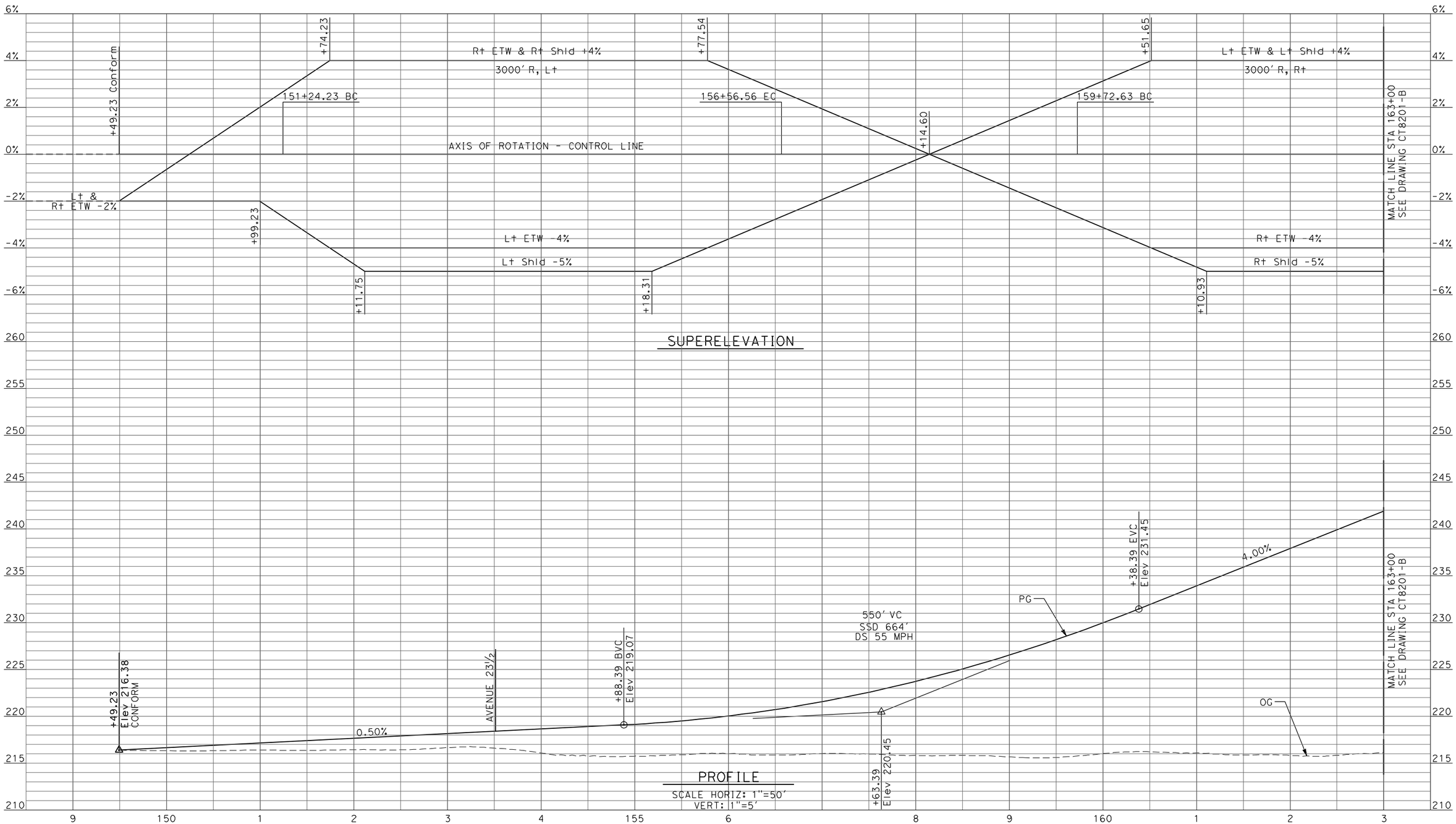
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAINLINE - HYBRID
GRADE SEPARATION - AVENUE 8
PROFILE
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT3003-A
SCALE AS SHOWN
SHEET NO. OF ###

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DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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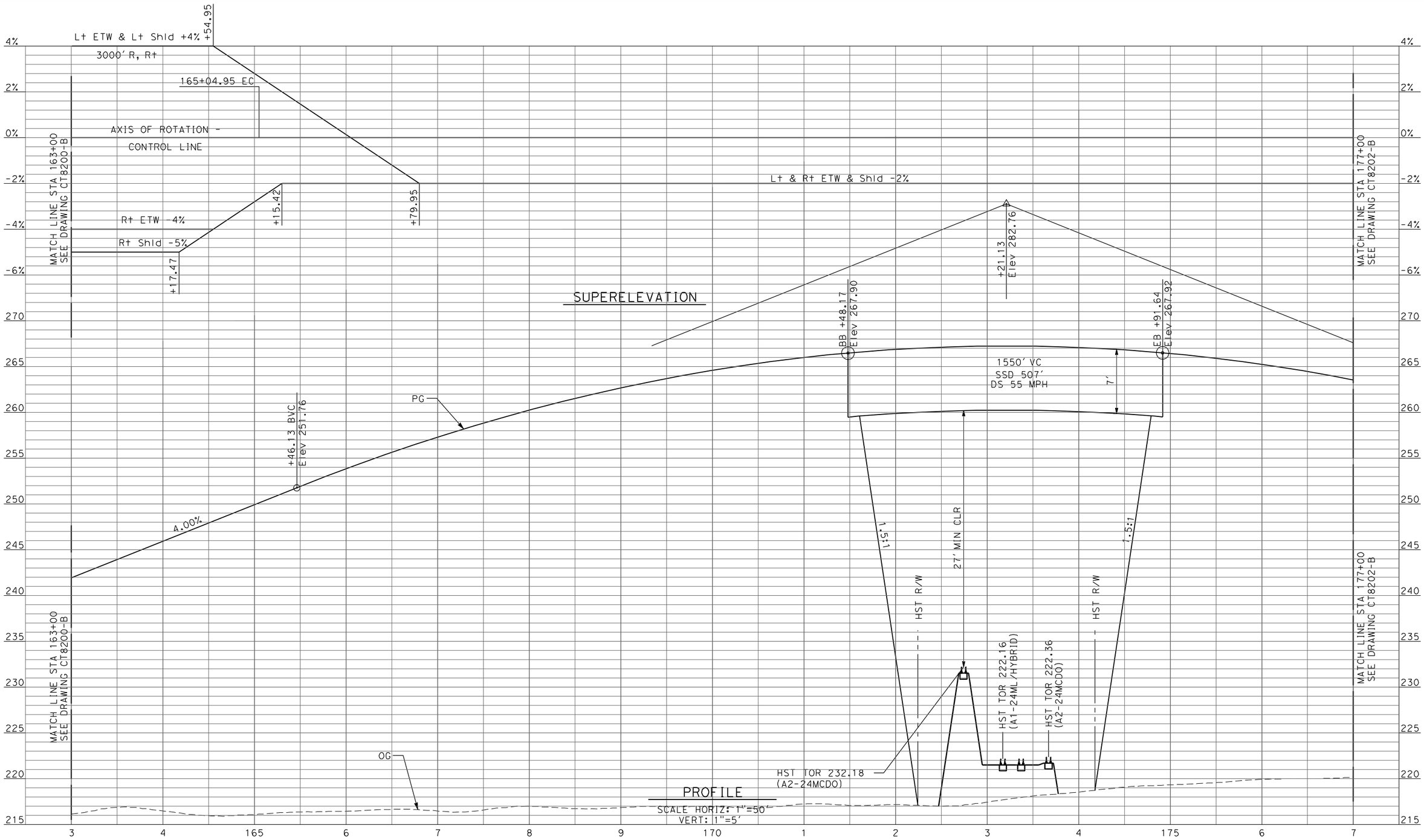
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAINLINE/MERCED DO - (HYBRID)
GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1
PROFILE
SHEET 1 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT8200-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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Sacramento, CA 95811
CH2MHILL

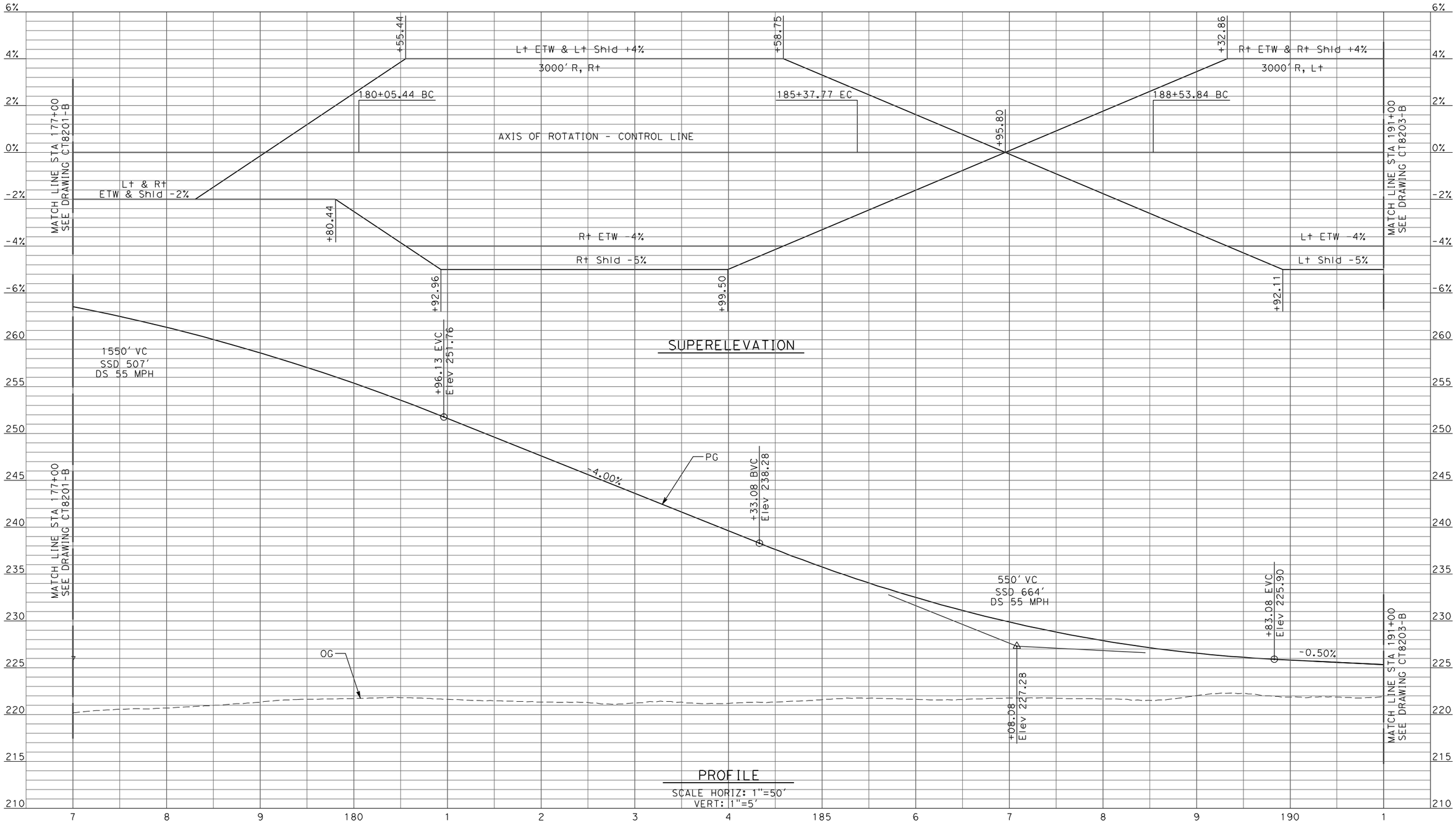
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAINLINE/MERCED DO - (HYBRID)
GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1
PROFILE
SHEET 2 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT8201-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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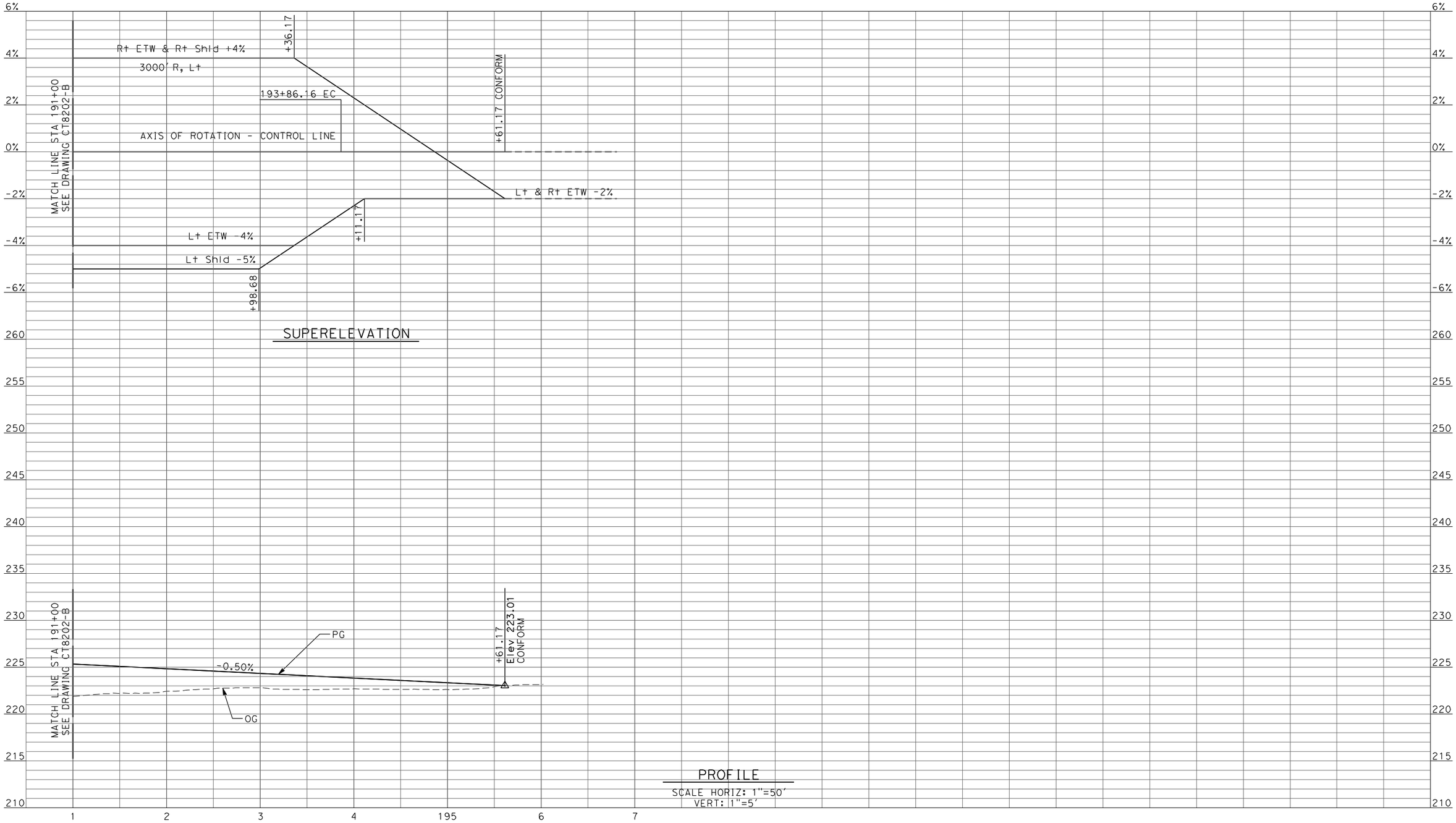
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAINLINE/MERCED DO - (HYBRID)
GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1
PROFILE
SHEET 3 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT8202-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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CH2MHILL

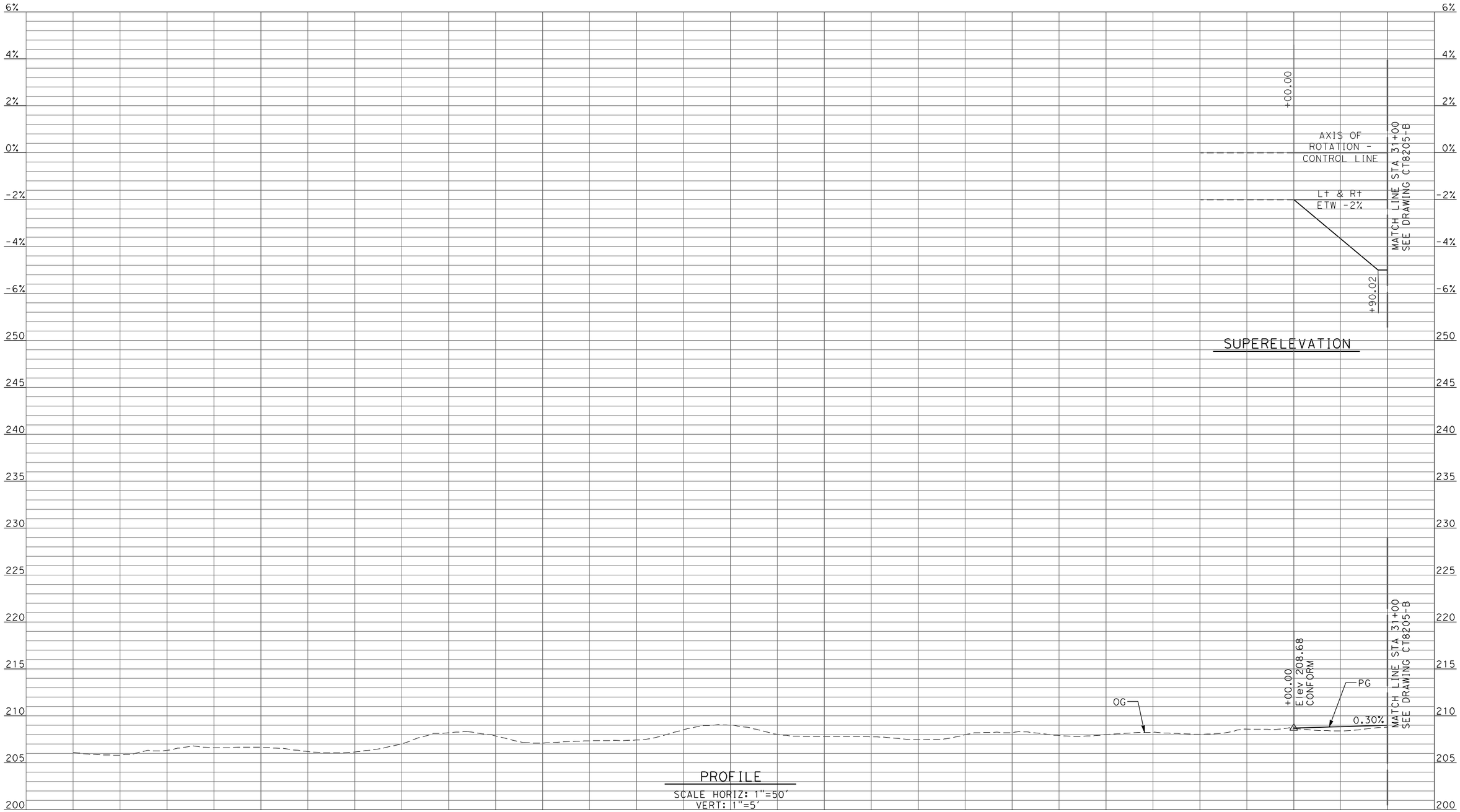
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAINLINE/MERCED DO - (HYBRID)
GRADE SEPARATION - ROBERTSON BLVD (SR 233) ALT 1
PROFILE
SHEET 4 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT8203-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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CH2MHILL

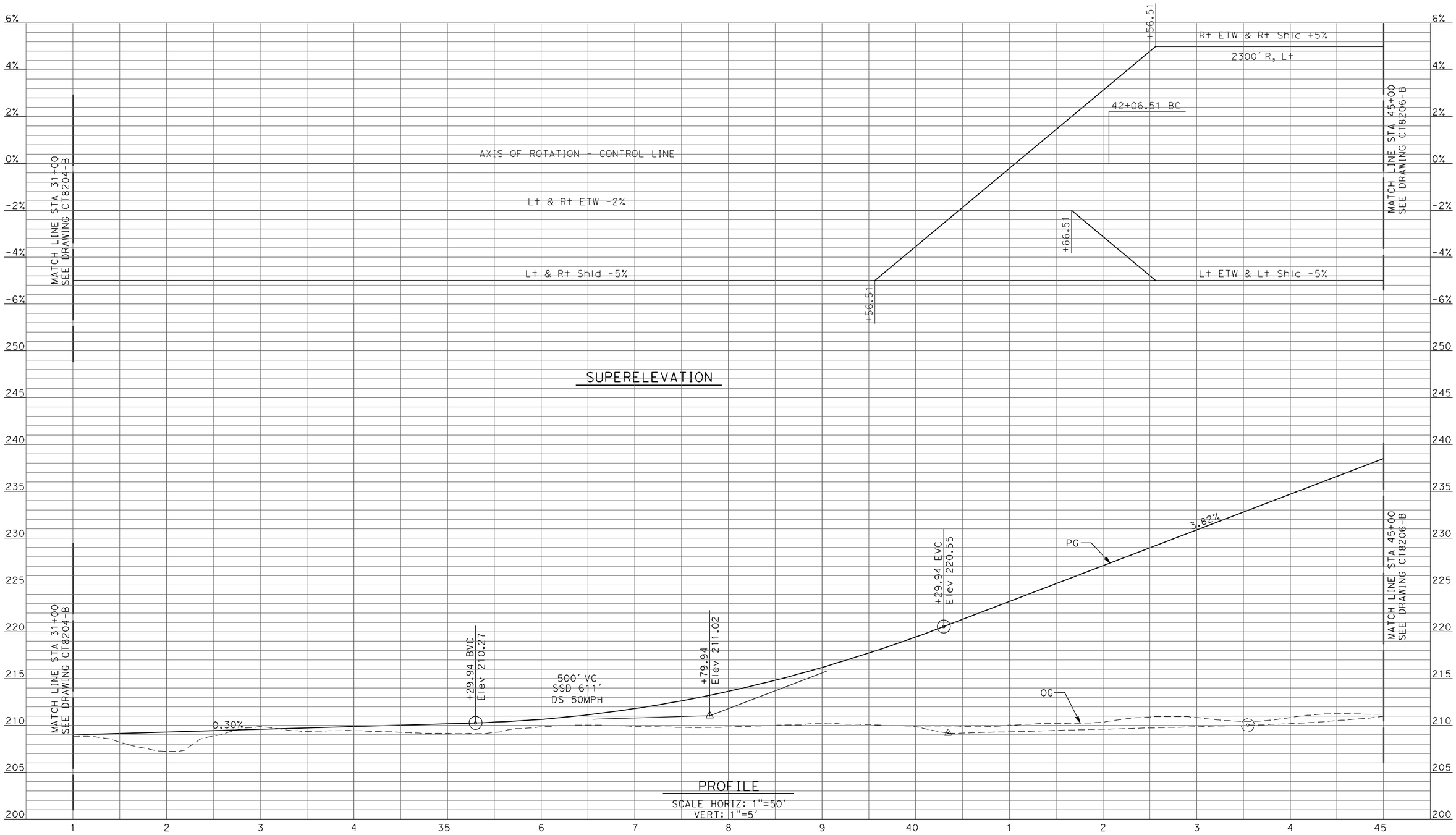
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED DO - (HYBRID)
SANDY MUSH RD INTERCHANGE
PROFILE
SHEET 1 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT8204-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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SUPERELEVATION

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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Sacramento, CA 95811
CH2MHILL

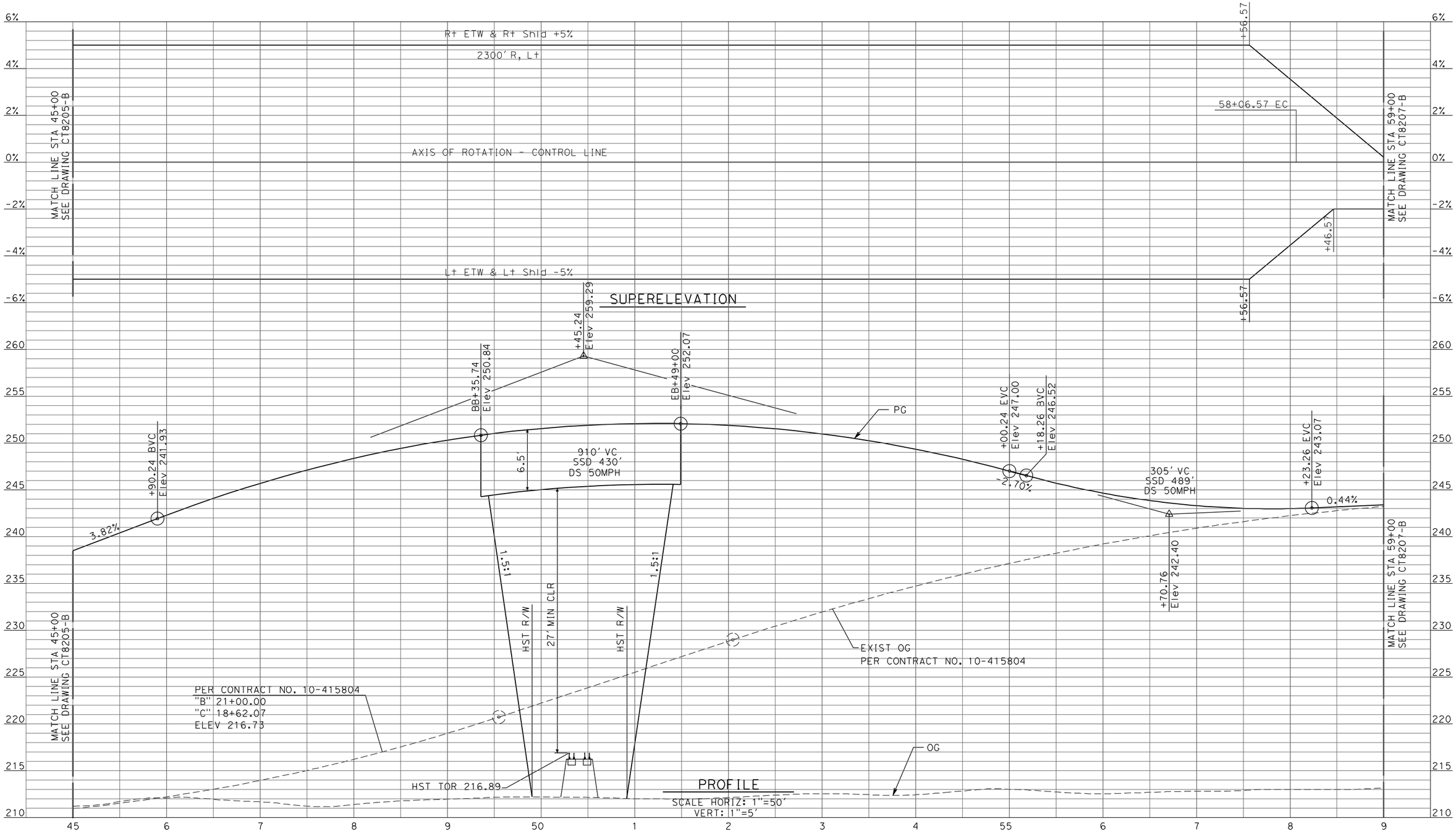
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MERCED DO - (HYBRID)
SANDY MUSH RD INTERCHANGE
PROFILE
SHEET 2 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT8205-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY	D. AYELE
DRAWN BY	C. DELOS REYES
CHECKED BY	A. SILVER
IN CHARGE	A. BOONE
DATE	04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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CH2MHILL

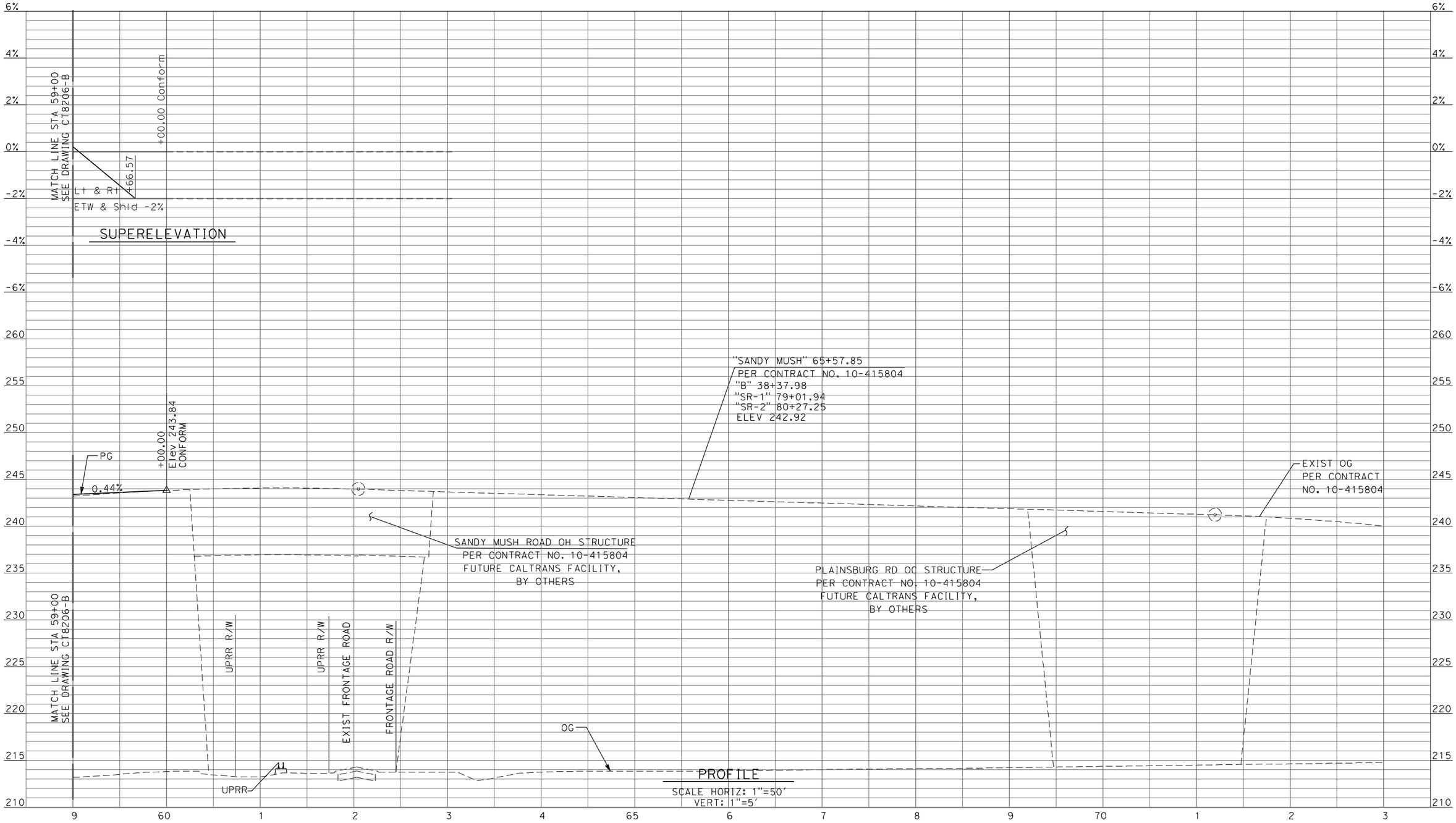
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED DO - (HYBRID)
SANDY MUSH RD INTERCHANGE
PROFILE
SHEET 3 OF 4

CONTRACT NO.	HSR06-007
DRAWING NO.	CT8206-B
SCALE	AS SHOWN
SHEET NO.	### OF ###

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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CH2MHILL

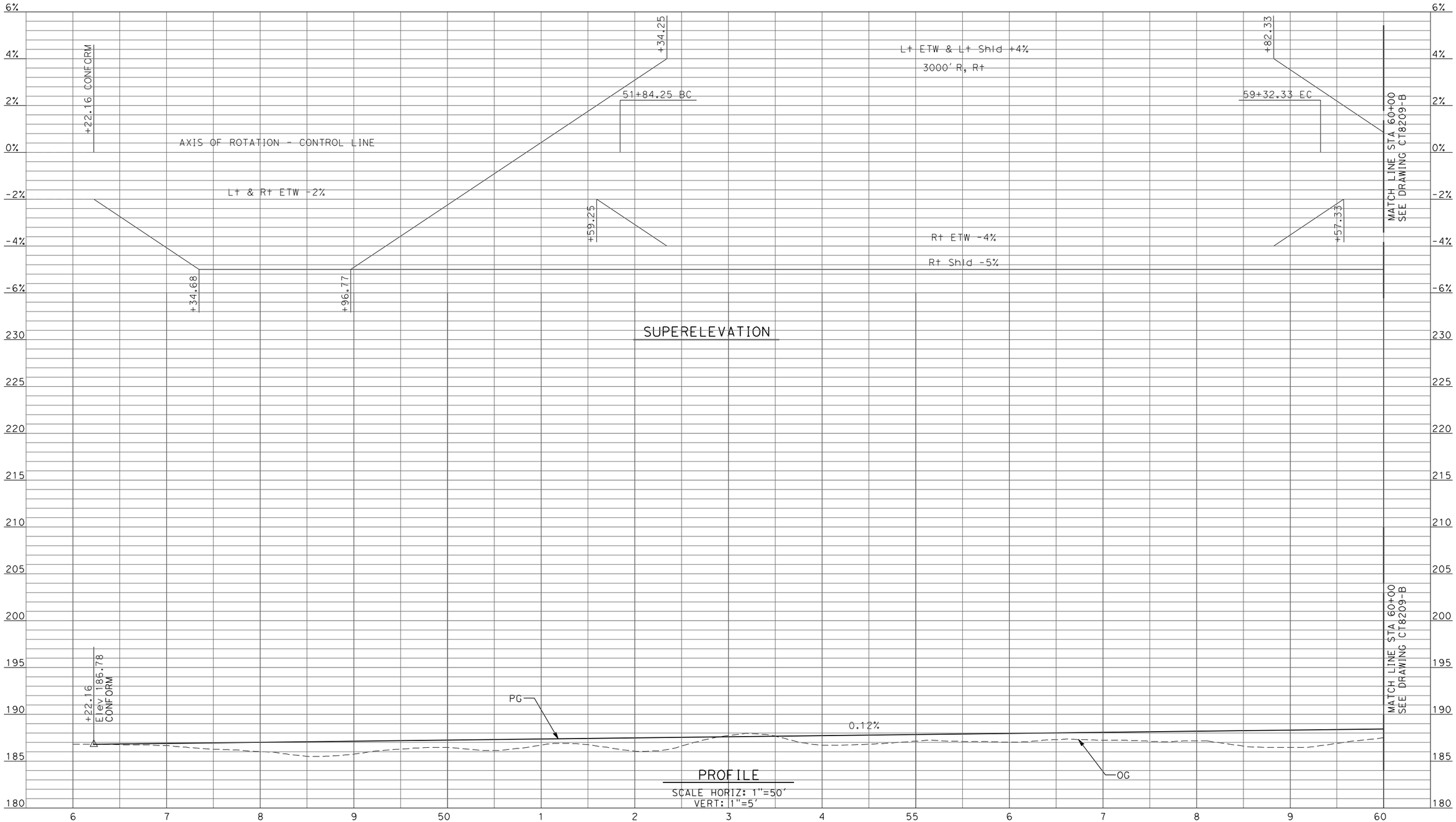
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED DO - (HYBRID)
SANDY MUSH RD INTERCHANGE
PROFILE
SHEET 4 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT8207-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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SUPERELEVATION

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM Technical Services, Inc.
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Sacramento, CA 95811
CH2MHILL

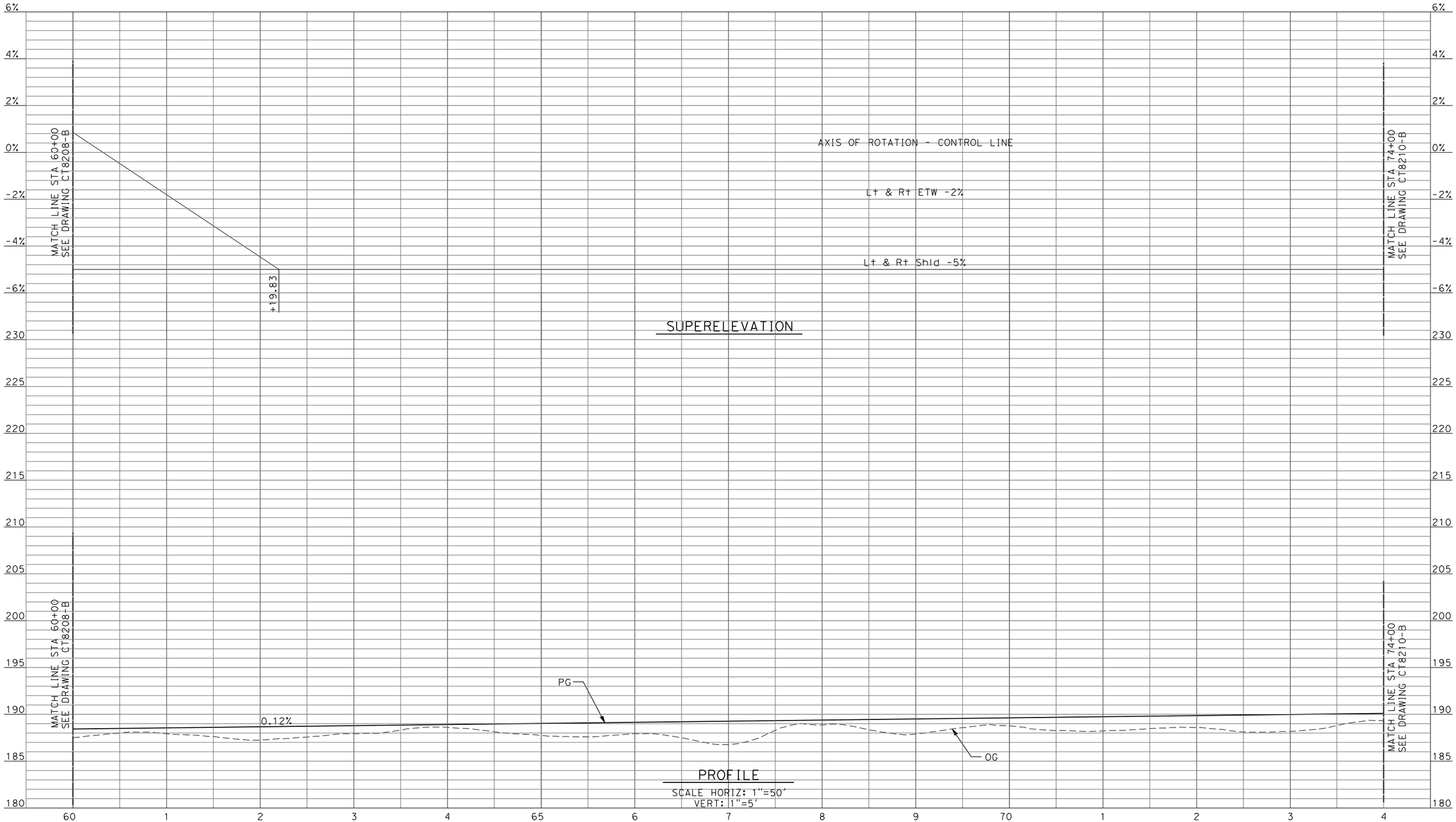
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR99 MERCED - (HYBRID)
GRADE SEPARATION - LE GRAND RD INTERCHANGE
PROFILE
SHEET 1 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT8208-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED - (HYBRID)
GRADE SEPARATION - LE GRAND RD INTERCHANGE
PROFILE
SHEET 2 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT8209-B
SCALE AS SHOWN
SHEET NO. ### OF ###

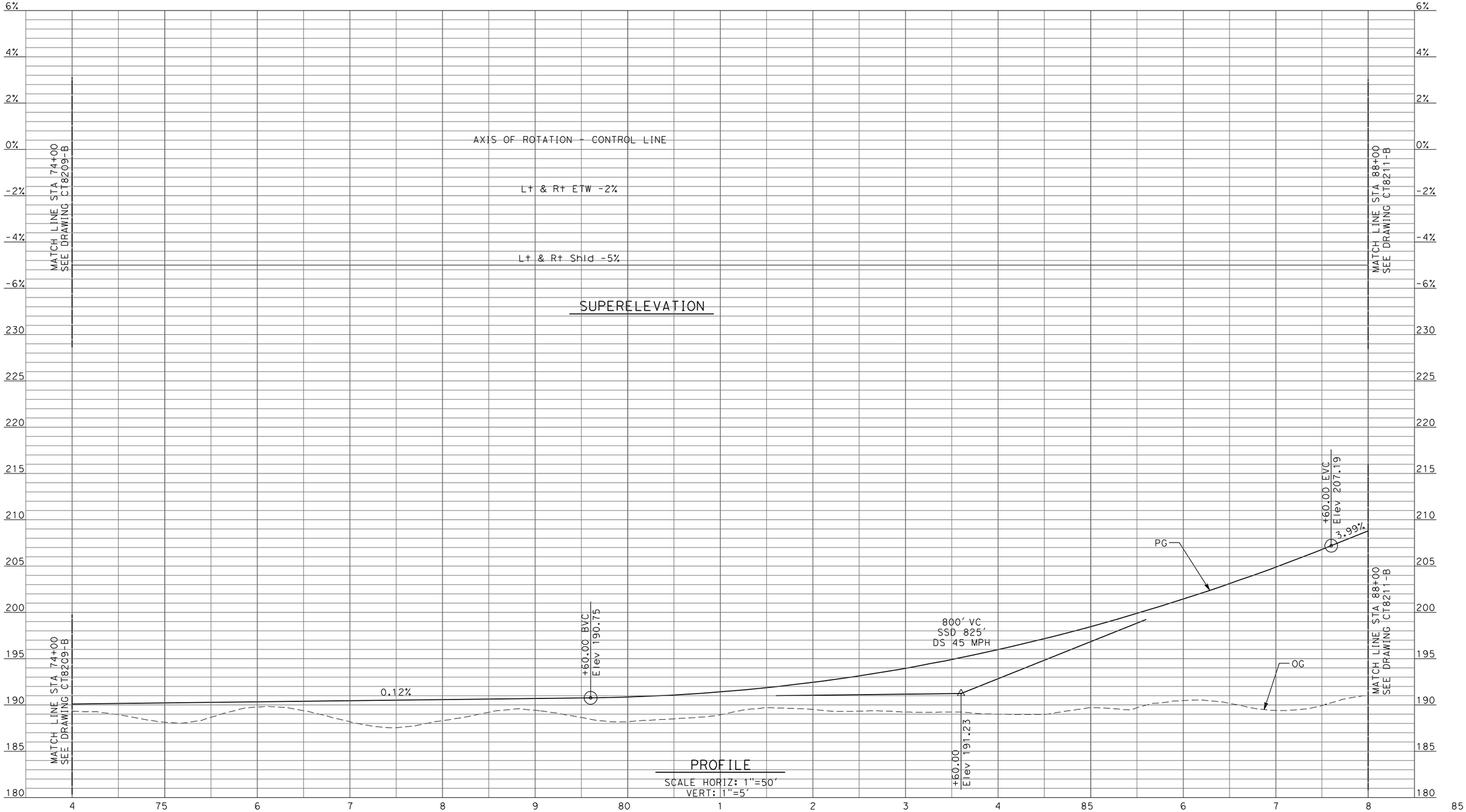
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4/27/2011 7:19:10 PM
ayeled

AXIS OF ROTATION - CONTROL LINE

Lt & Rt ETW -2%

Lt & Rt Shld -5%

SUPERELEVATION



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

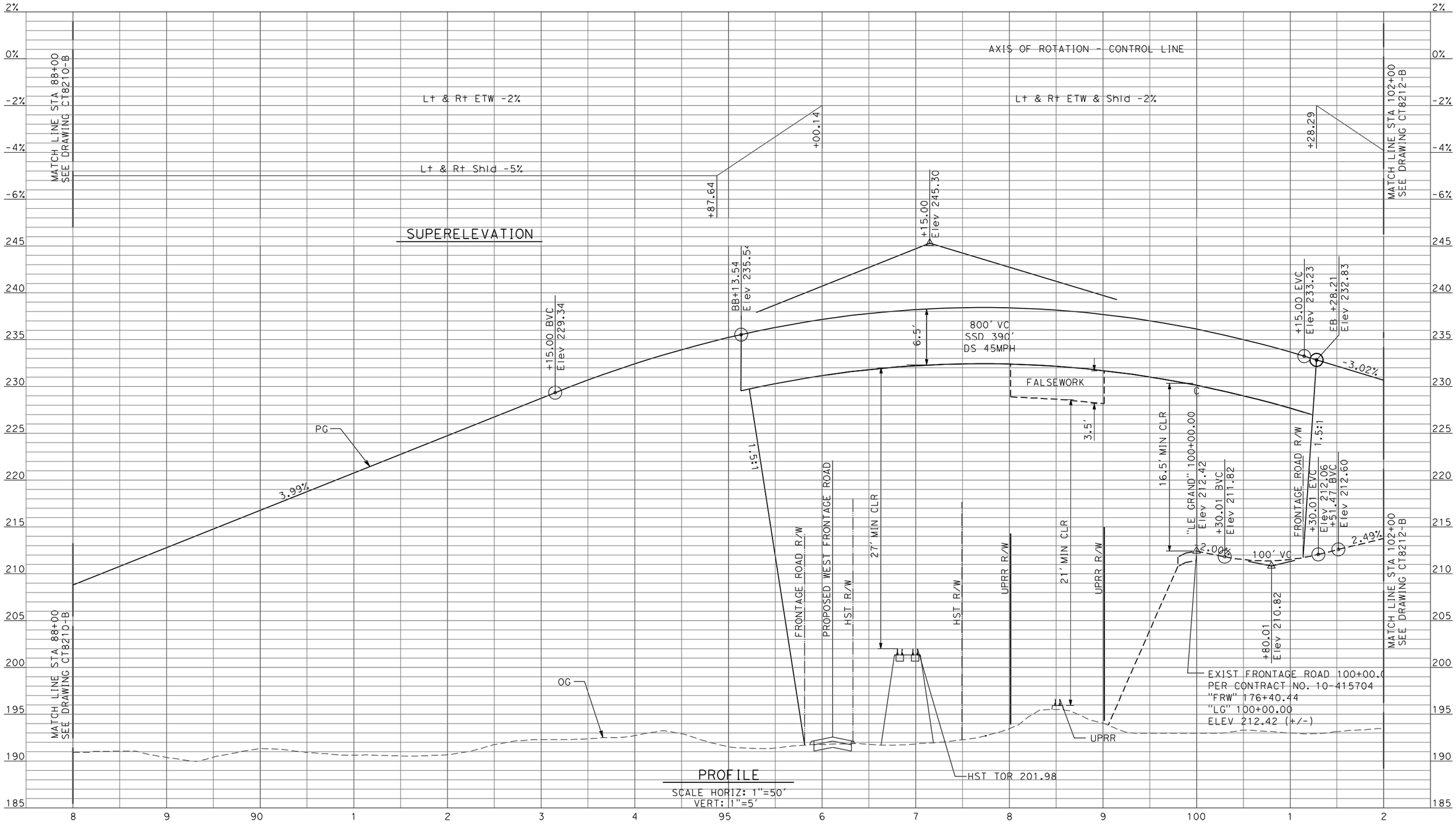
UPRR/SR99 MERCED - (HYBRID)
GRADE SEPARATION - LE GRAND RD INTERCHANGE
PROFILE
SHEET 3 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT8210-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ayeled

ayeled 4/27/2011 7:19:18 PM p:\60022962\task 02_merced-fresno\cadd\civil\sheet\package 3 - hybrid\volume 2b - hybrid caltrans facilites\Profile\CT8211-B.dgn



PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

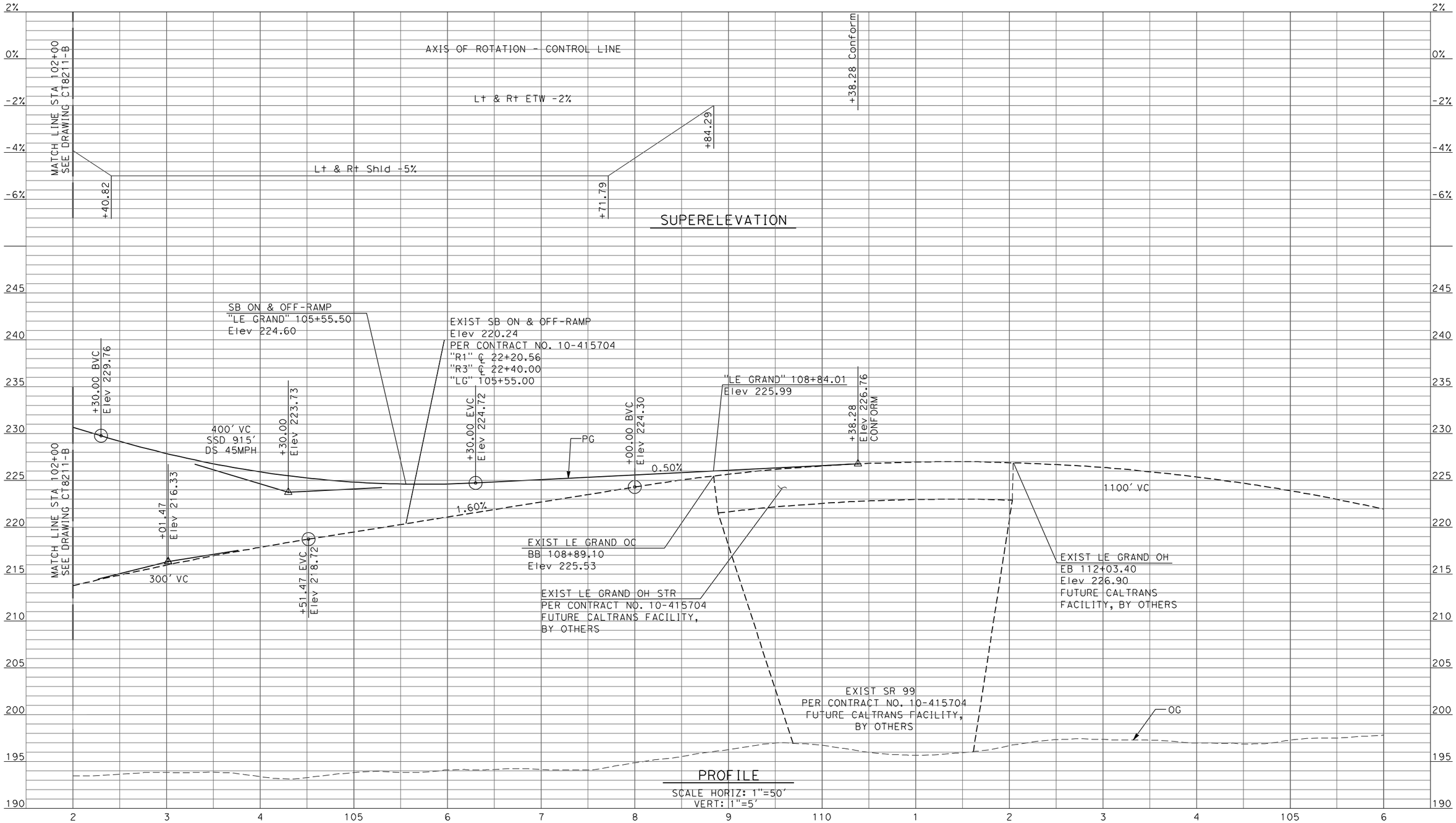
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED - (HYBRID)
GRADE SEPARATION - LE GRAND RD INTERCHANGE
PROFILE
SHEET 4 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT8211-B
SCALE AS SHOWN
SHEET NO. ### OF ###



PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED - (HYBRID)
GRADE SEPARATION - LE GRAND RD INTERCHANGE
PROFILE
SHEET 5 OF 5

CONTRACT NO. HSR06-007
DRAWING NO. CT8212-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ayeled

PER CONTRACT NO. 10-415704
GRADE CONTROL BY "A" (RTE 99)
CROSS SLOPE
FUTURE CALTRANS FACILITY, BY OTHERS

+90.02
Elev 202.20

-0.37%

+55.19
Elev 200.46

-0.43%

PG

+00.00 BVC
Elev 198.99

200' VC

+00.00
Elev 198.56

0.30%

+65.00 BVC
Elev 199.35

470' VC

MATCH LINE STA 16+00
SEE DRAWING CT8214-B

OG

PROFILE
SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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Sacramento, CA 95811

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

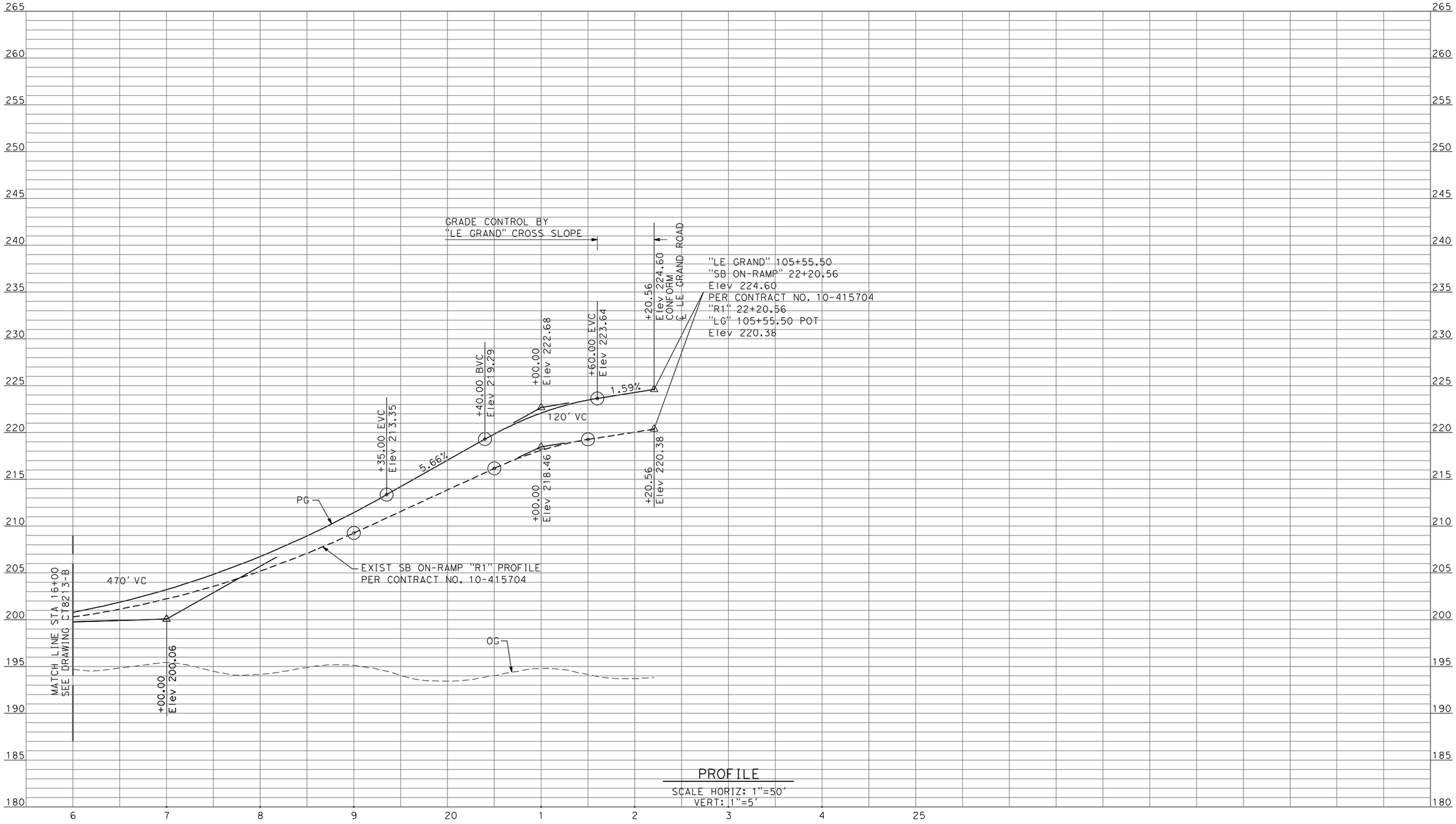
UPRR/SR99 MERCED - (HYBRID)
GRADE SEPARATION-LE GRAND RD IC SR99 SB ON-RAMP
PROFILE
SHEET 1 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT8213-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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4/27/2011 7:19:30 PM
oyeled



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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2020 L Street, Suite 300
Sacramento, CA 95811

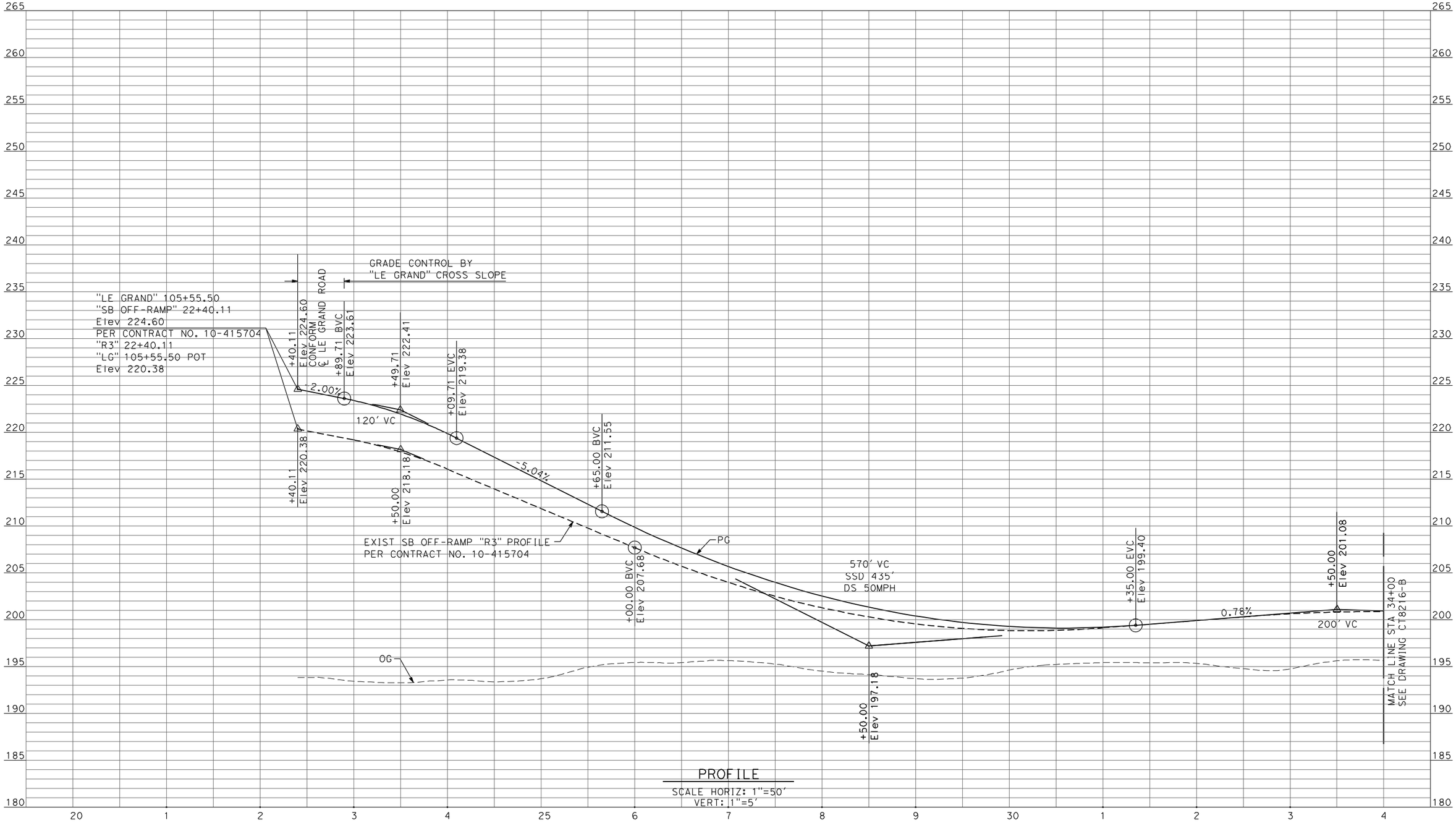
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED - (HYBRID)
GRADE SEPARATION-LE GRAND RD IC SR99 SB ON-RAMP
PROFILE
SHEET 2 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT8214-B
SCALE AS SHOWN
SHEET NO. ### OF ###



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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2020 L Street, Suite 300
Sacramento, CA 95811

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

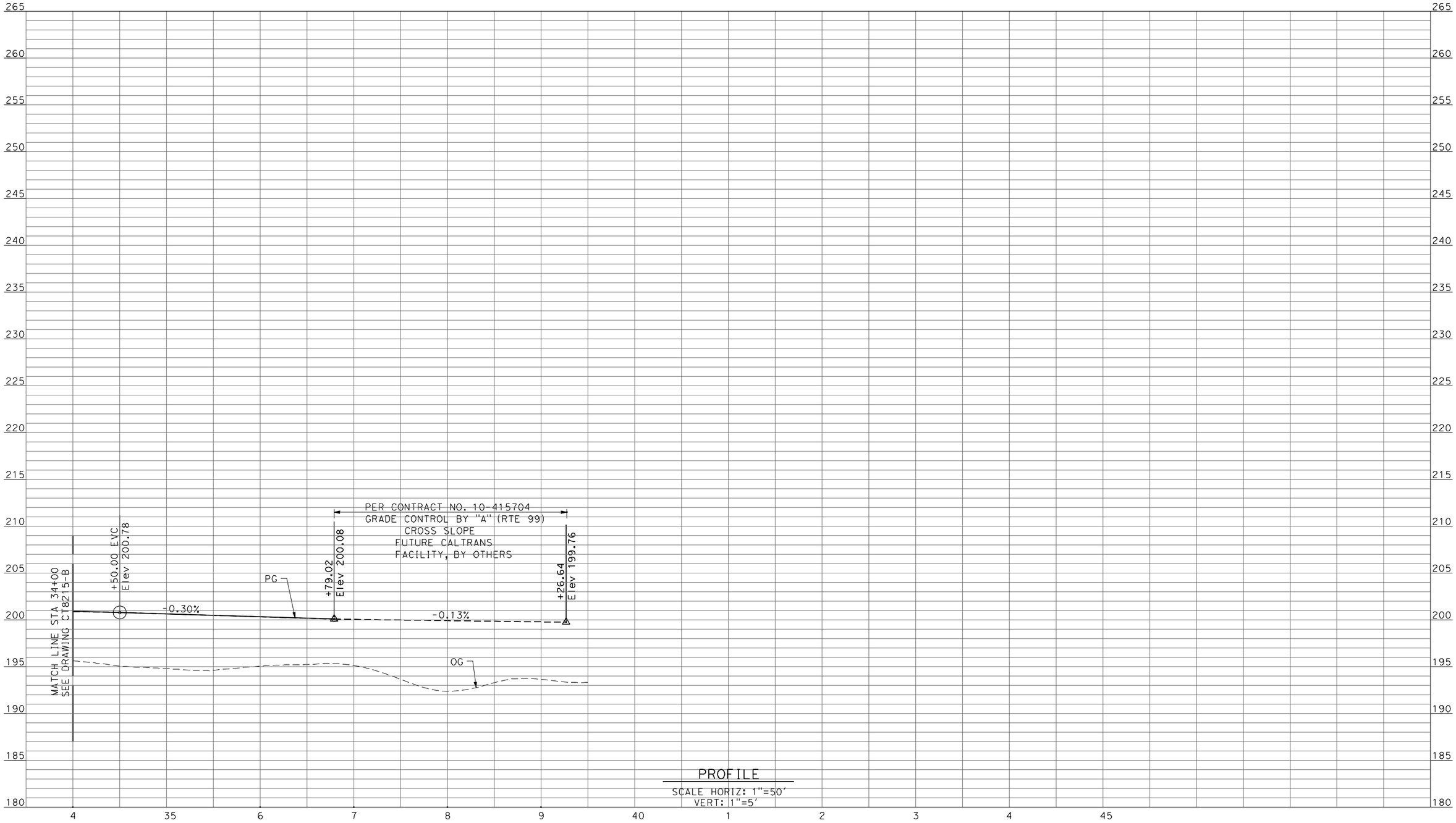
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED - (HYBRID)
GRADE SEPARATION-LE GRAND RD IC SR99 SB OFF-RAMP
PROFILE
SHEET 3 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT8215-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ayeled



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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Sacramento, CA 95811

CH2MHILL

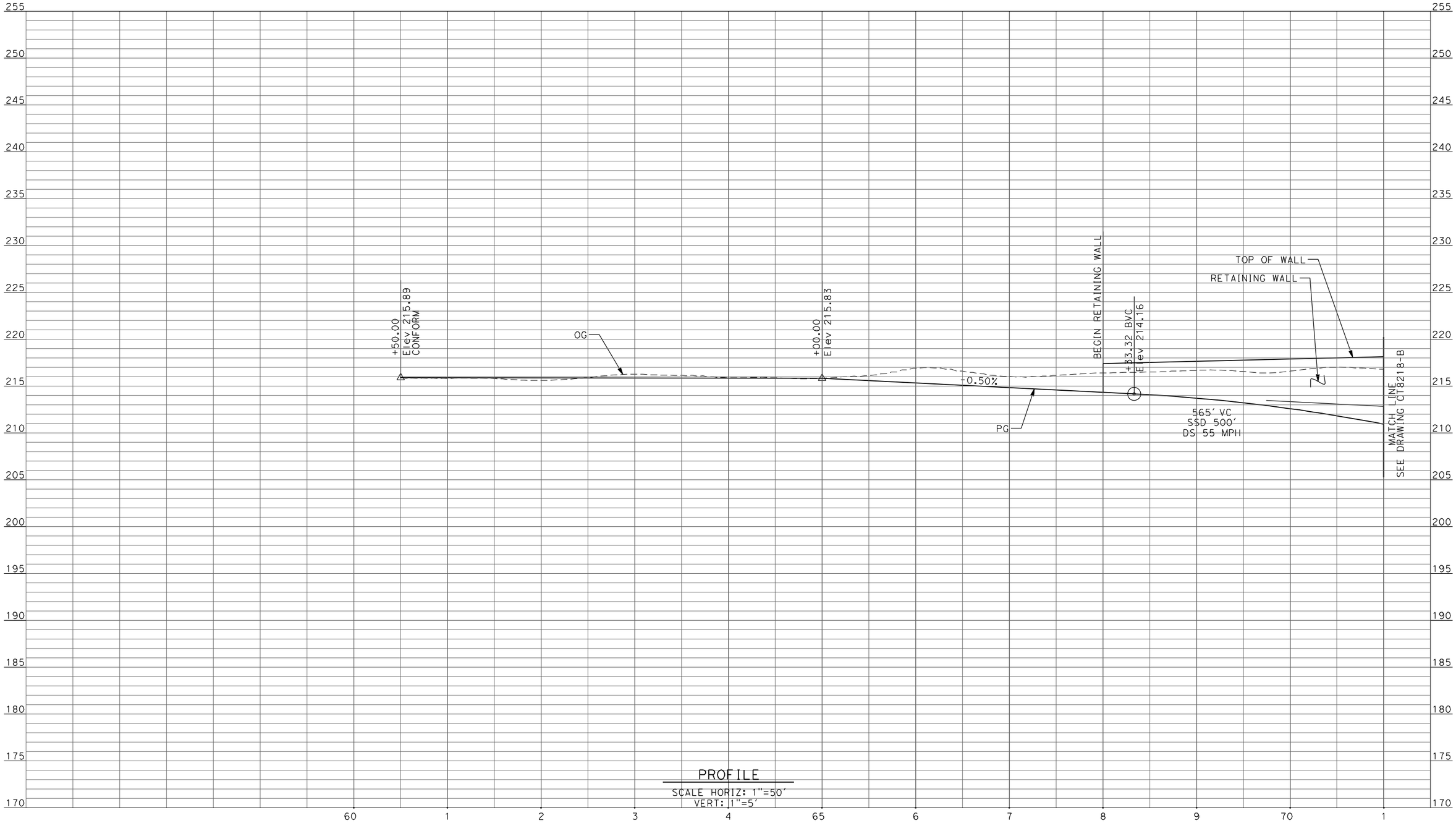
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED - (HYBRID)
GRADE SEPARATION-LE GRAND RD IC SR99 SB OFF-RAMP
PROFILE
SHEET 4 OF 4

CONTRACT NO. HSR06-007
DRAWING NO. CT8216-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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Technical Services, Inc.
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Sacramento, CA 95811
CH2MHILL

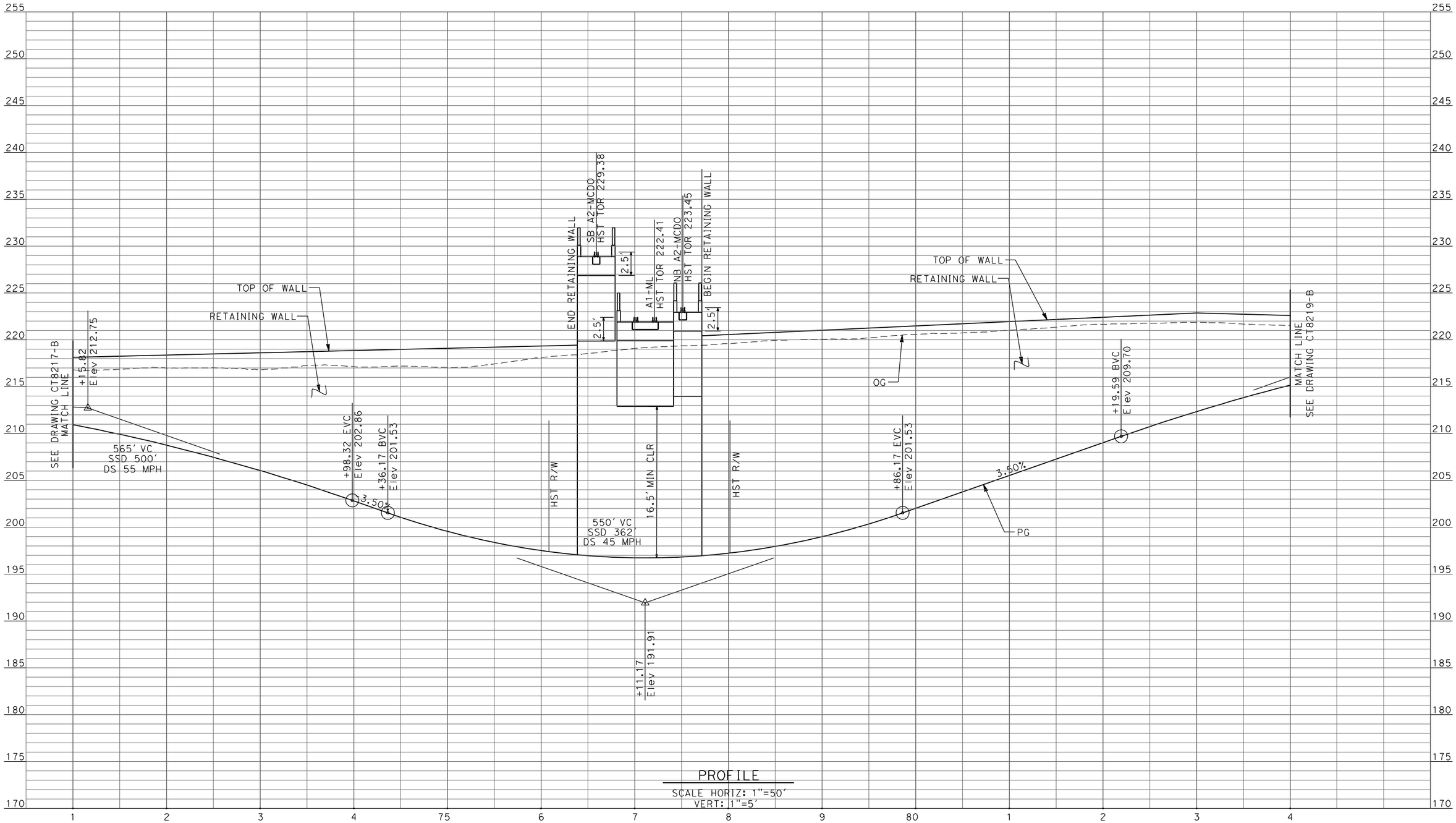
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAINLINE/MERCED DO - (HYBRID)
UNDERPASS - ROBERTSON BOULEVARD (SR 233) ALT 2
PROFILE
SHEET 1 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT8217-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ayeled



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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Sacramento, CA 95811
CH2MHILL

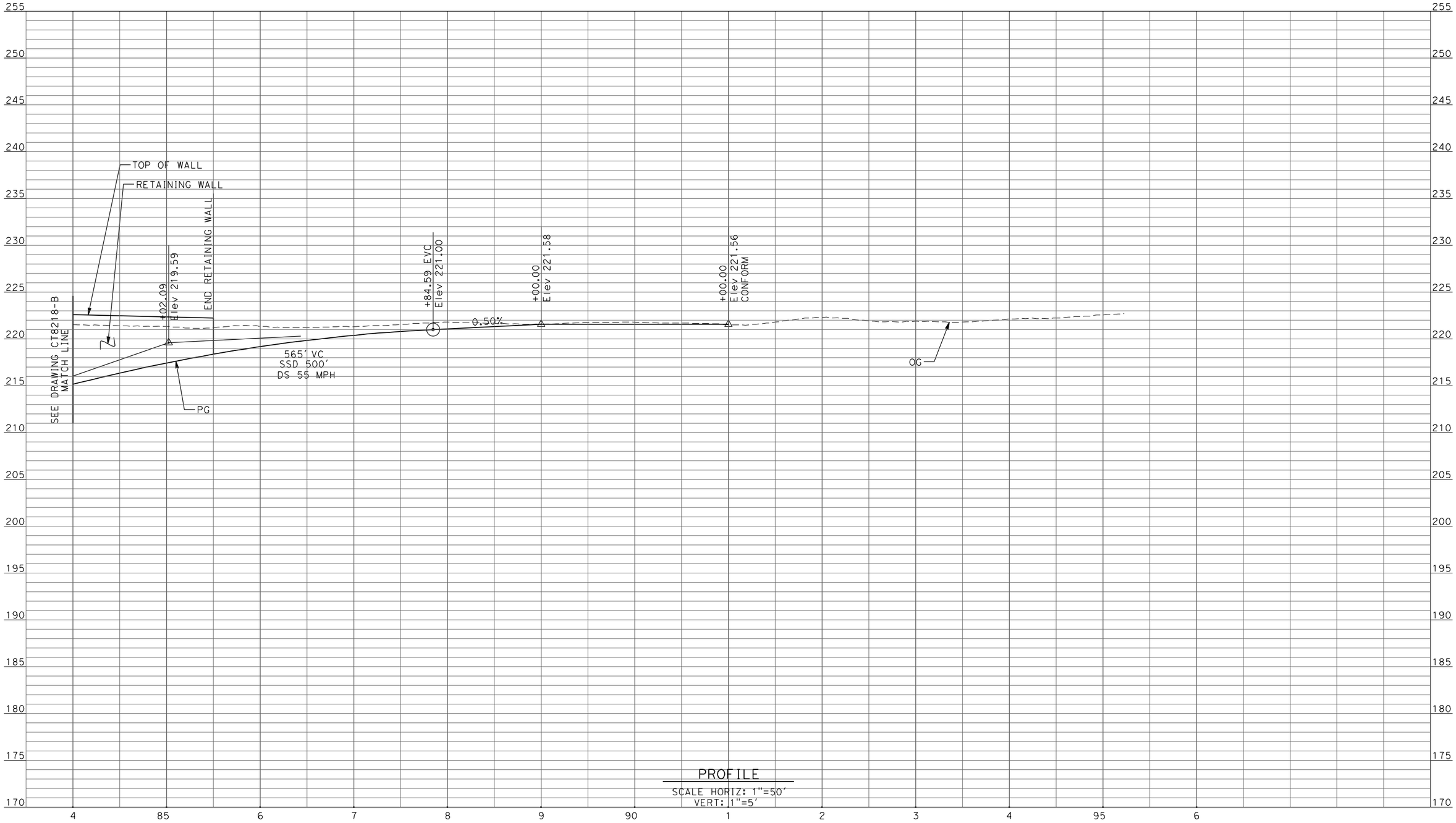
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAINLINE/MERCED DO - (HYBRID)
UNDERPASS - ROBERTSON BOULEVARD (SR 233) ALT 2
PROFILE
SHEET 2 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT8218-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ayeled



PROFILE

SCALE HORIZ: 1"=50'
VERT: 1"=5'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAINLINE/MERCED DO - (HYBRID)
UNDERPASS - ROBERTSON BOULEVARD (SR 233) ALT 2
PROFILE
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. CT8219-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	SHEET TITLE LINE 5	SHEET TITLE LINE 6
ROADWAY BRIDGE STRUCTURE PLAN					
HYBRID ALTERNATIVE/AVENUE 24					
GENERAL					
	SB1311	HYBRID ALTERNATIVE	AVENUE 24	INDEX OF DRAWINGS	SHEET 1 OF 1
	SB1312	HYBRID ALTERNATIVE	AVENUE 24	STRUCTURE INDEX MAP	SHEET 1 OF 1
OVERHEAD BRIDGES					
	ST1000	BNSF MAIN LINE	AVENUE 21	AVENUE 8 OVERHEAD	PLANNING STUDY
	ST1150	BNSF MAIN LINE/HYBRID	AVENUE 24	SR 233 OVERHEAD	PLANNING STUDY
	ST1114	UPRR/SR 99 MERCED CONNECTION	AVENUE 21	LE GRAND ROAD OVERHEAD	PLANNING STUDY
	ST1181	UPRR/SR 99 MERCED CONNECTION	AVENUE 21	SR 99 SOUTHBOUND OVERHEAD	PLANNING STUDY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. Lee
DRAWN BY E. CISNEROS
CHECKED BY J. RENTERIA
IN CHARGE A. Boone
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

AECOM
Technical Services, Inc.
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Sacramento, CA 95811
CH2MHILL

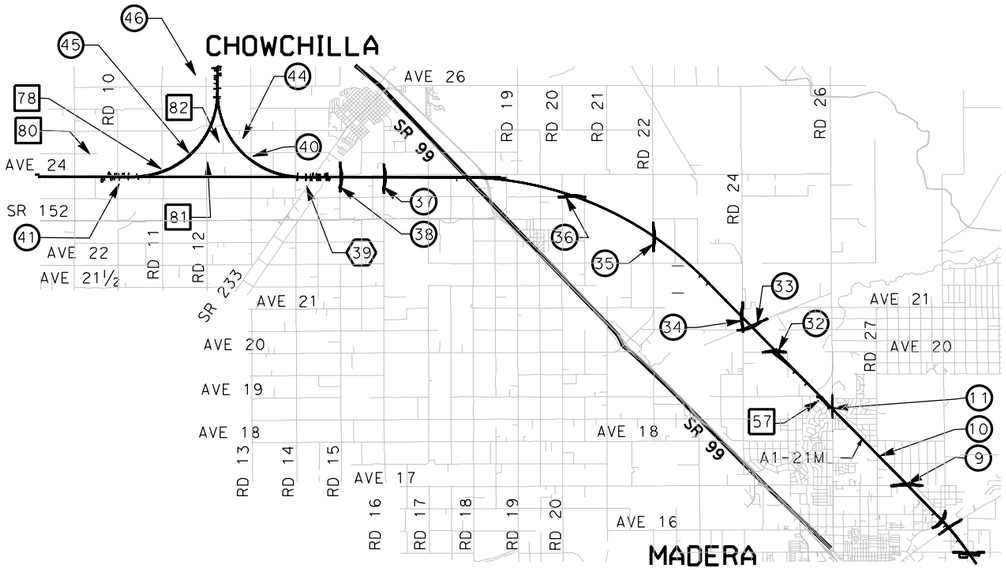
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
HYBRID ALTERNATIVE
AVENUE 24
INDEX OF DRAWINGS
SHEET 1 OF 1

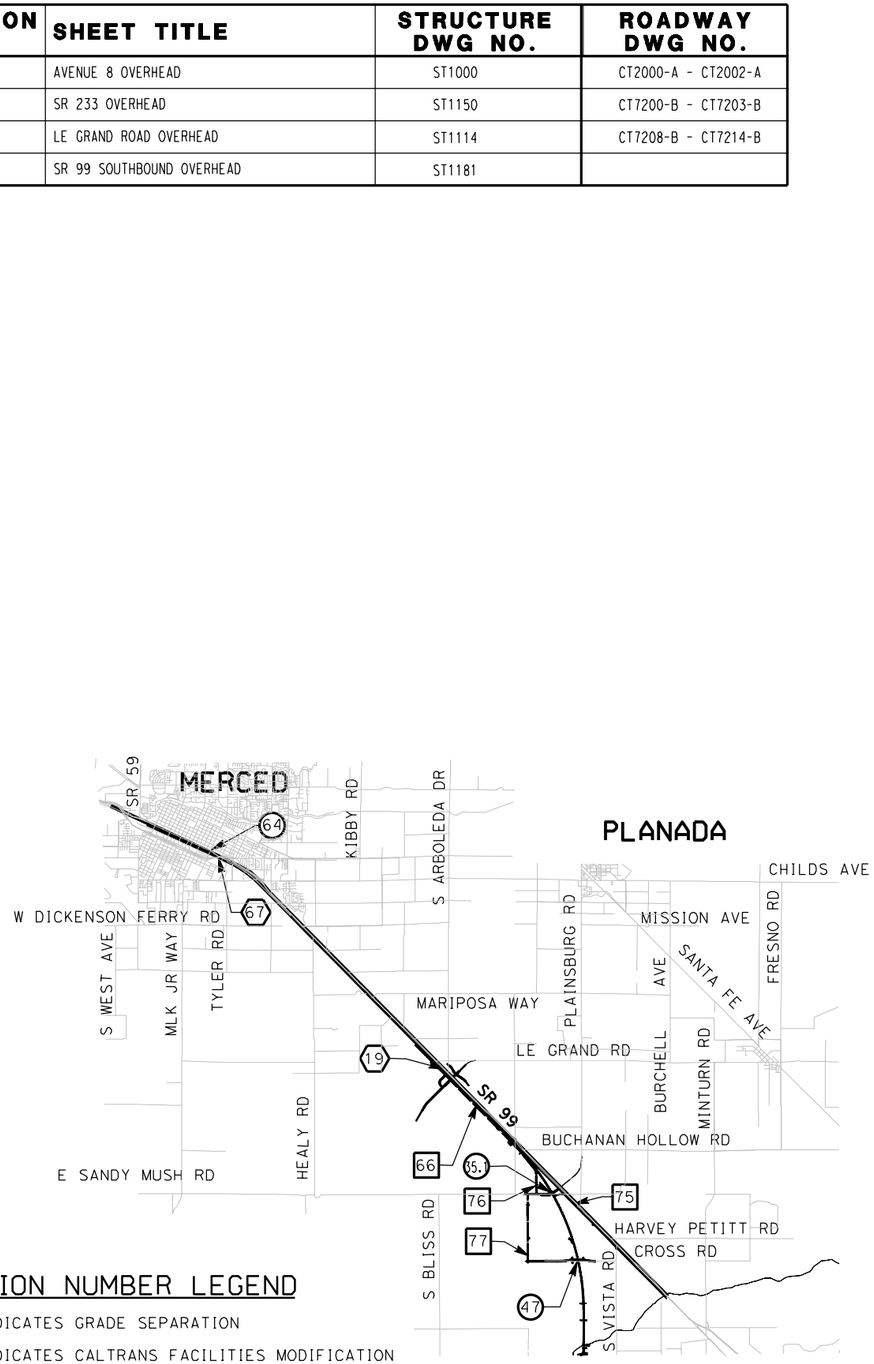
CONTRACT NO. HSR06-007
DRAWING NO. SB1311
SCALE No scale
SHEET NO. OF

cisnerose 4/1/2012 12:46:05 PM \\usscr1fp001\Cadd\CHSR\60022962\Task-02_Merced-Fresno\CADD\Struct\Sheet\APS\A1\15% cost reduction submittal\GradeStructure\Hybrid Caltrans\MF-SB-1311.dgn

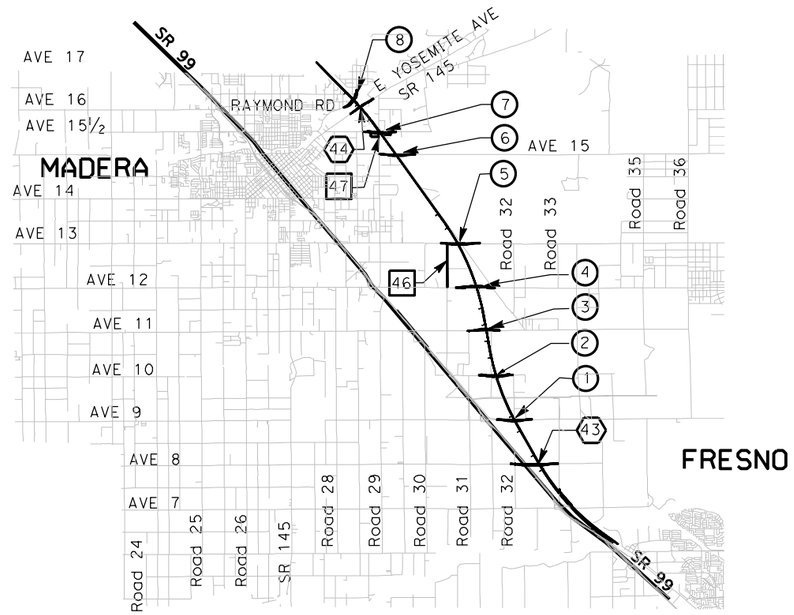
LOCATION NO.	SHEET TITLE	STRUCTURE DWG NO.	ROADWAY DWG NO.
(43)	AVENUE 8 OVERHEAD	ST1000	CT2000-A - CT2002-A
(39)	SR 233 OVERHEAD	ST1150	CT7200-B - CT7203-B
(19)	LE GRAND ROAD OVERHEAD	ST1114	CT7208-B - CT7214-B
(67)	SR 99 SOUTHBOUND OVERHEAD	ST1181	



VICINITY MAP 2



VICINITY MAP 1



VICINITY MAP 3

LOCATION NUMBER LEGEND

(X) - INDICATES GRADE SEPARATION

(X) - INDICATES CALTRANS FACILITIES MODIFICATION

[X] - INDICATES LOCAL ROAD RELOCATION

9000 0 9000 18000

GRAPHIC SCALE

REV	DATE	BY	CHK	APP	DESCRIPTION
2	02/24/12	HL	EC	AB	
1	12/28/11	HL	EC	AB	

DESIGNED BY H. Lee
DRAWN BY E. CISNEROS
CHECKED BY J. ZANDIAN
IN CHARGE A. Boone
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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2020 L Street, Suite 300
Sacramento, CA 95811

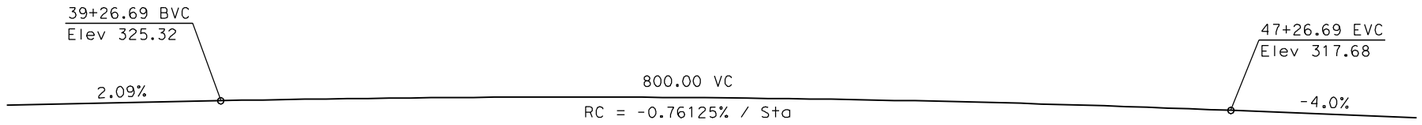
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

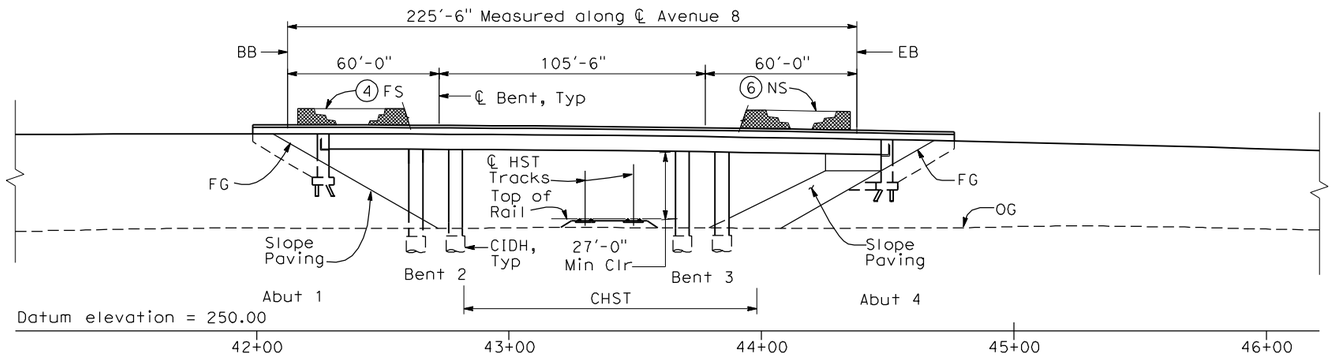
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
HYBRID ALTERNATIVE
AVENUE 24
STRUCTURE INDEX MAP
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. SB1312
SCALE As shown
SHEET NO. OF

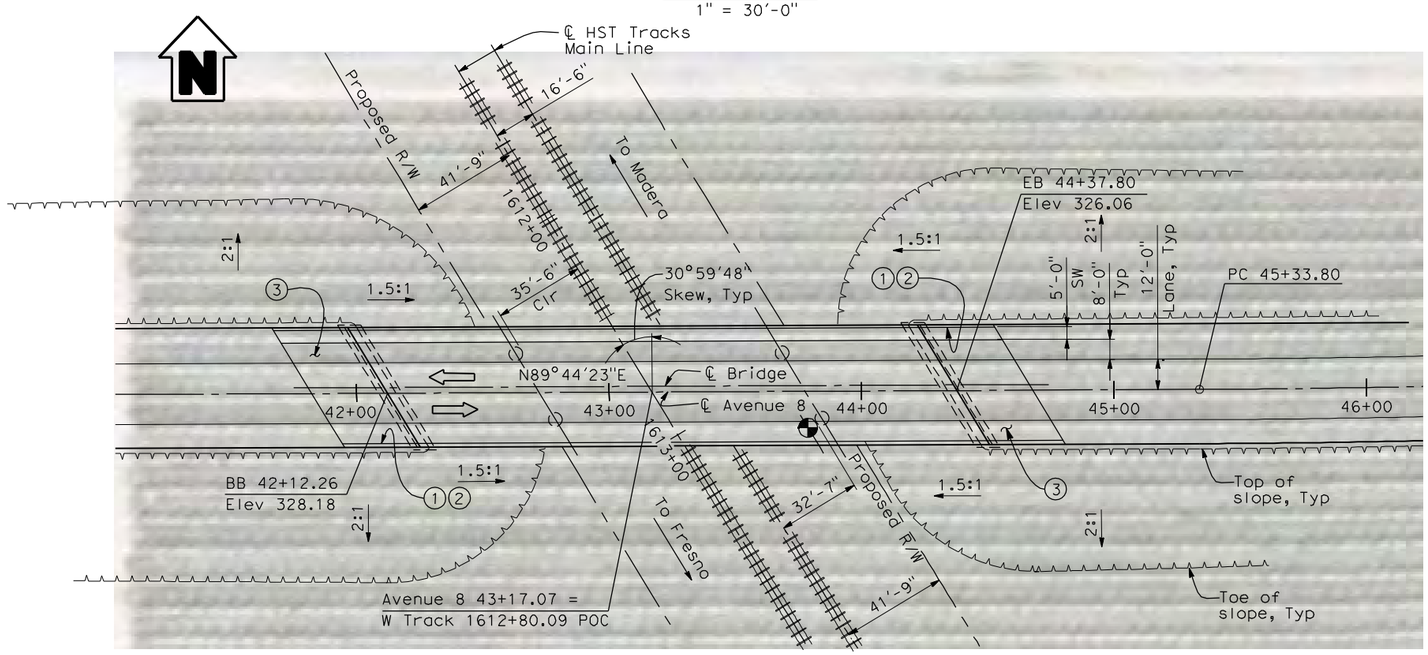
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cisnerose



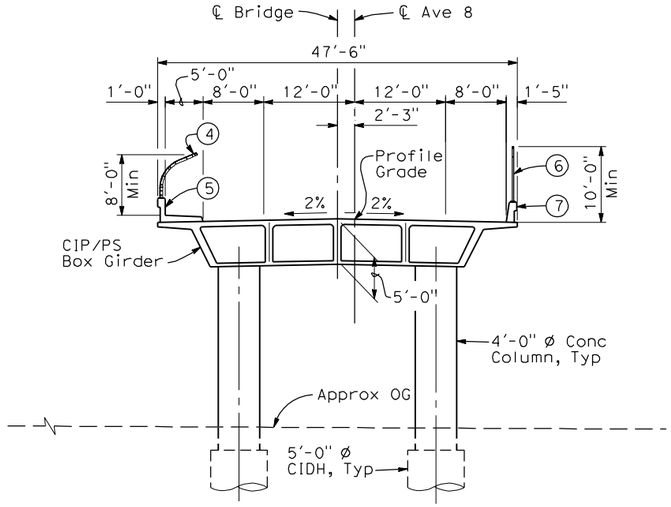
PROFILE GRADE
NTS



ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"



TYPICAL SECTION
1"=10'-0"

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "Avenue 8 OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Bearing of Avenue 8 to be determined.
9. Existing underground and overhead utilities to be determined.

LEGEND:

- Direction of traffic
- Point of minimum vertical clearance

DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	5'-0"
LENGTH	=	225'-6"
WIDTH	=	47'-6"
AREA	=	10,713 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 43

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY E. CISNEROS
CHECKED BY J. RENTERIA
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

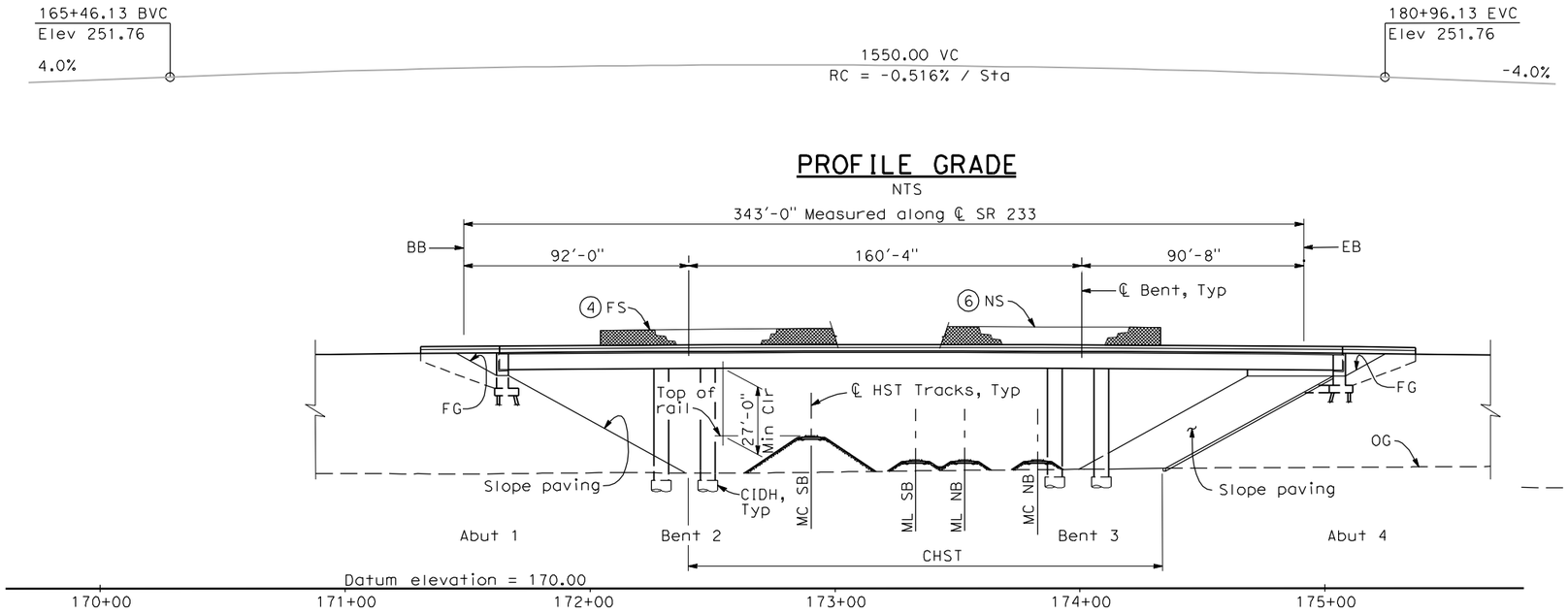
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
AVENUE 8 OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1000
SCALE As shown
SHEET NO. OF

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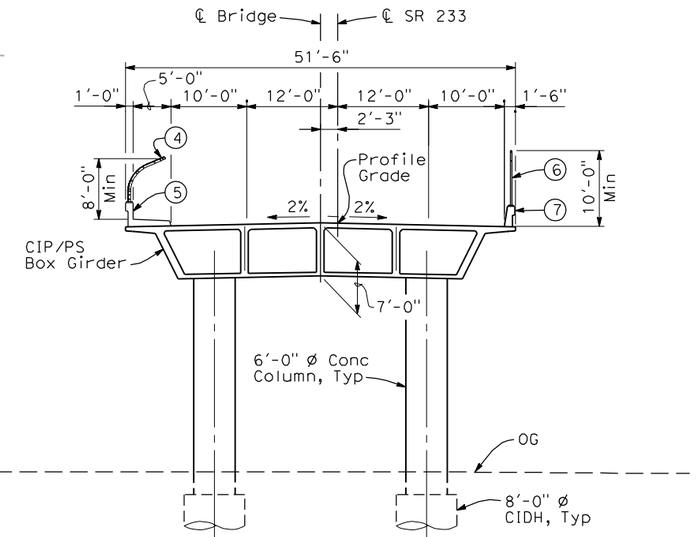


PROFILE GRADE

NTS

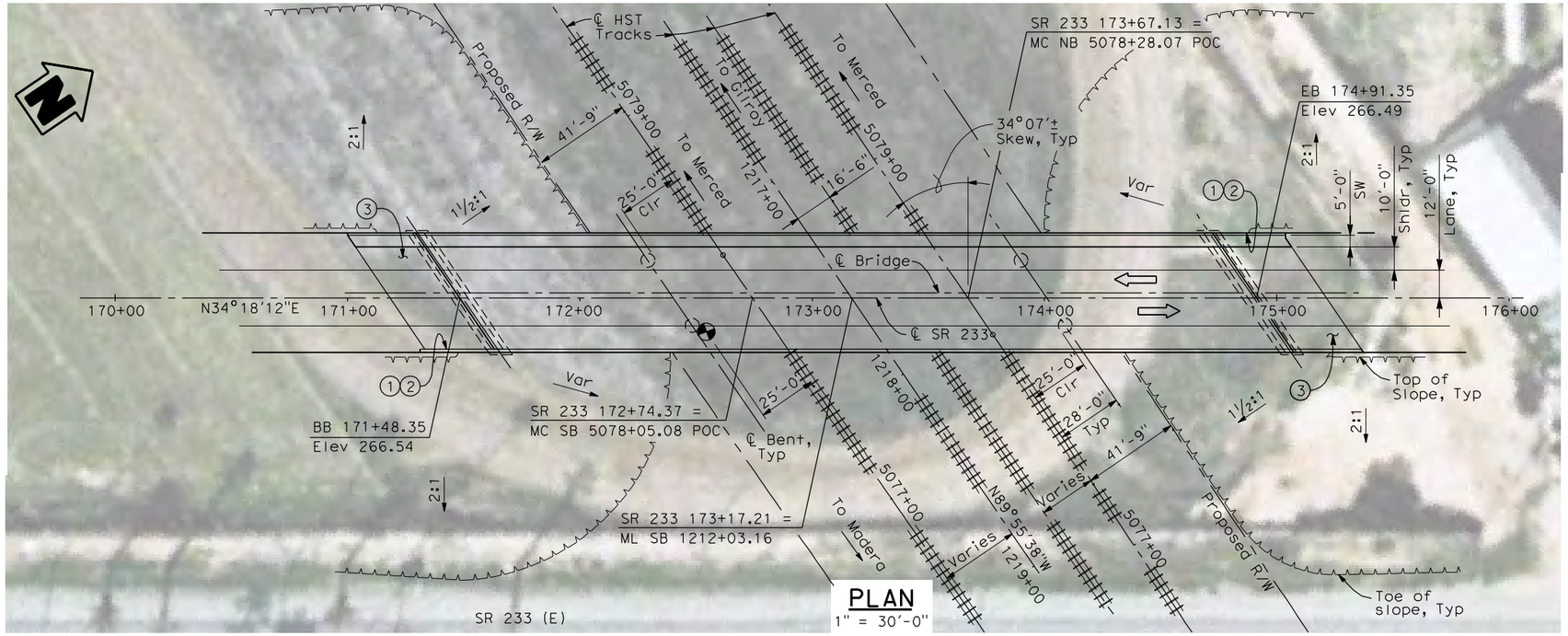
ELEVATION

1" = 30'-0"



TYPICAL SECTION

1" = 10'-0"



PLAN

1" = 30'-0"

NOTES:

1. Paint "Bridge No. XX-XX"
2. Paint "SR 233 OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. Existing underground and overhead utilities to be determined.

LEGEND/ABBREVIATIONS:

⇦ Direction of traffic

Point of minimum vertical clearance

MC = Merced Connection
ML = Main Line

DATE OF ESTIMATE	=	
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	7'-0"
LENGTH	=	343'-0"
WIDTH	=	51'-6"
AREA	=	17,700 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 39

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY B. DOLAN
CHECKED BY T. BARNARD
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

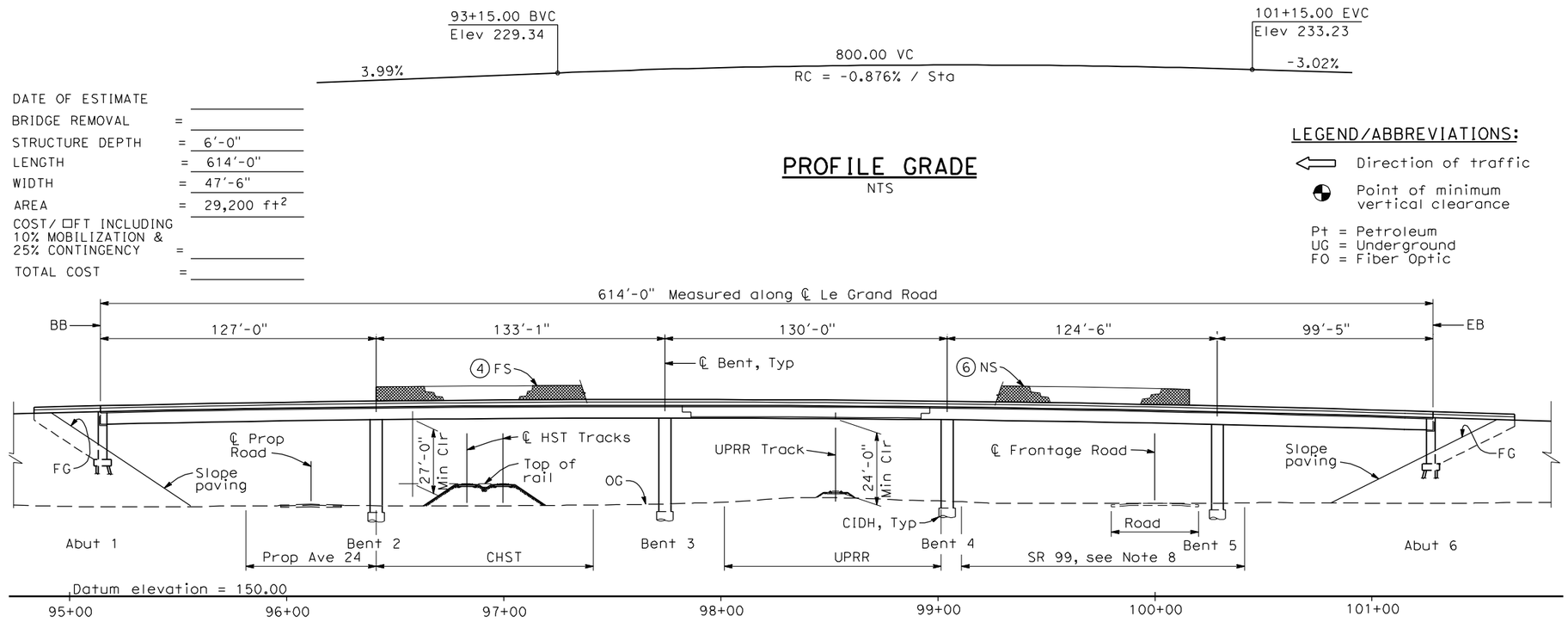
AECOM Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE/HYBRID
AVENUE 24
SR 233 OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1150
SCALE As shown
SHEET NO. OF

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PROFILE GRADE
NTS

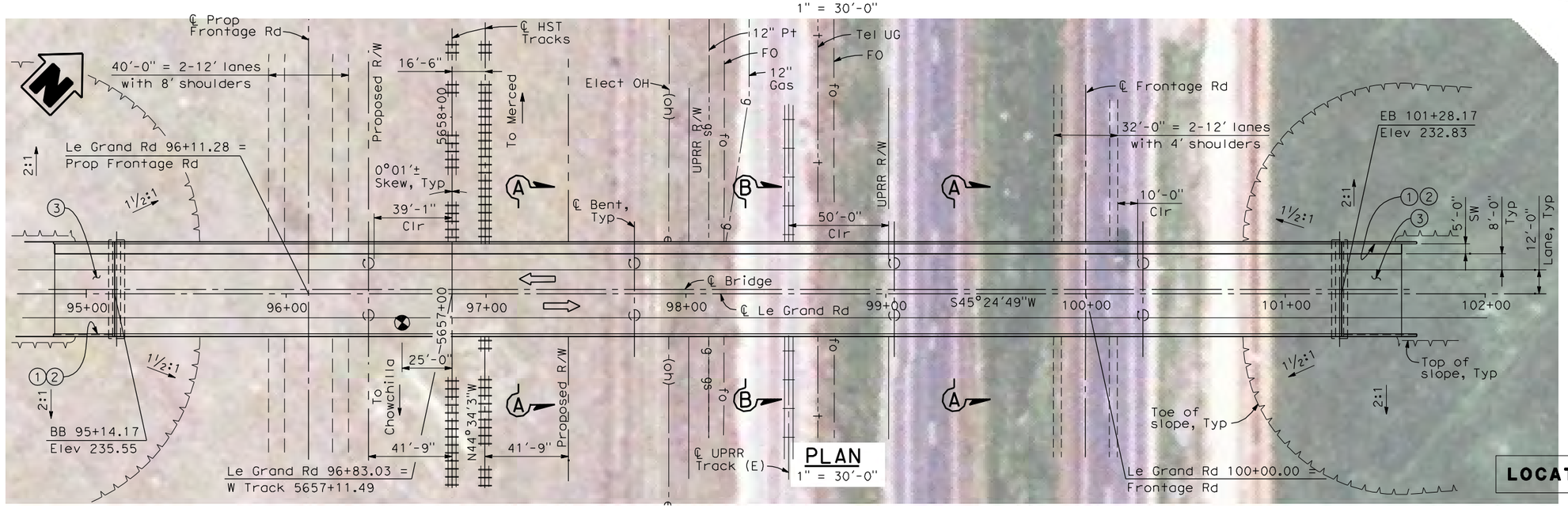
DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	614'-0"
WIDTH	=	47'-6"
AREA	=	29,200 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LEGEND/ABBREVIATIONS:

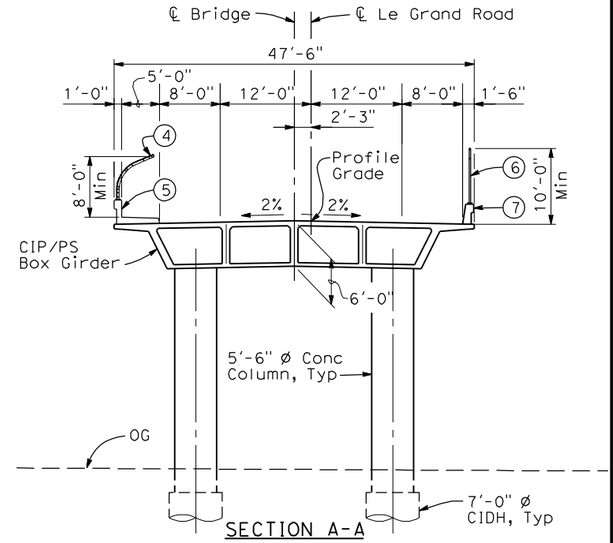
- Direction of traffic
- Point of minimum vertical clearance

Pt = Petroleum
UG = Underground
FO = Fiber Optic

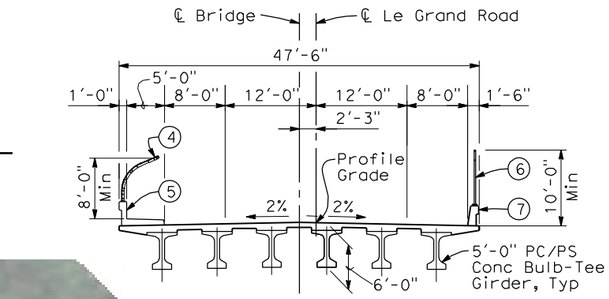
ELEVATION
1" = 30'-0"



PLAN
1" = 30'-0"



SECTION A-A



SECTION B-B

TYPICAL SECTIONS
1" = 10'-0"

NOTES:

1. Paint "Bridge No. WX-YY"
2. Paint "Le Grand Road OH"
3. Structure Approach Slab Type N (30S)
4. Chain Link Railing Type 3
5. Concrete Barrier Type 26 (Mod)
6. Chain Link Railing Type 7 (Mod)
7. Concrete Barrier Type 732
8. SR 99 will be relocated prior to or concurrent with this construction.
9. Bearing of Le Grand Road and UPRR track to be verified.
10. Existing underground and overhead utilities to be determined.
11. Location and elevation of existing UPRR track to be determined.

LOCATION 19

30 0 30 60
1"=30'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY B. DOLAN
CHECKED BY T. BARNARD
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

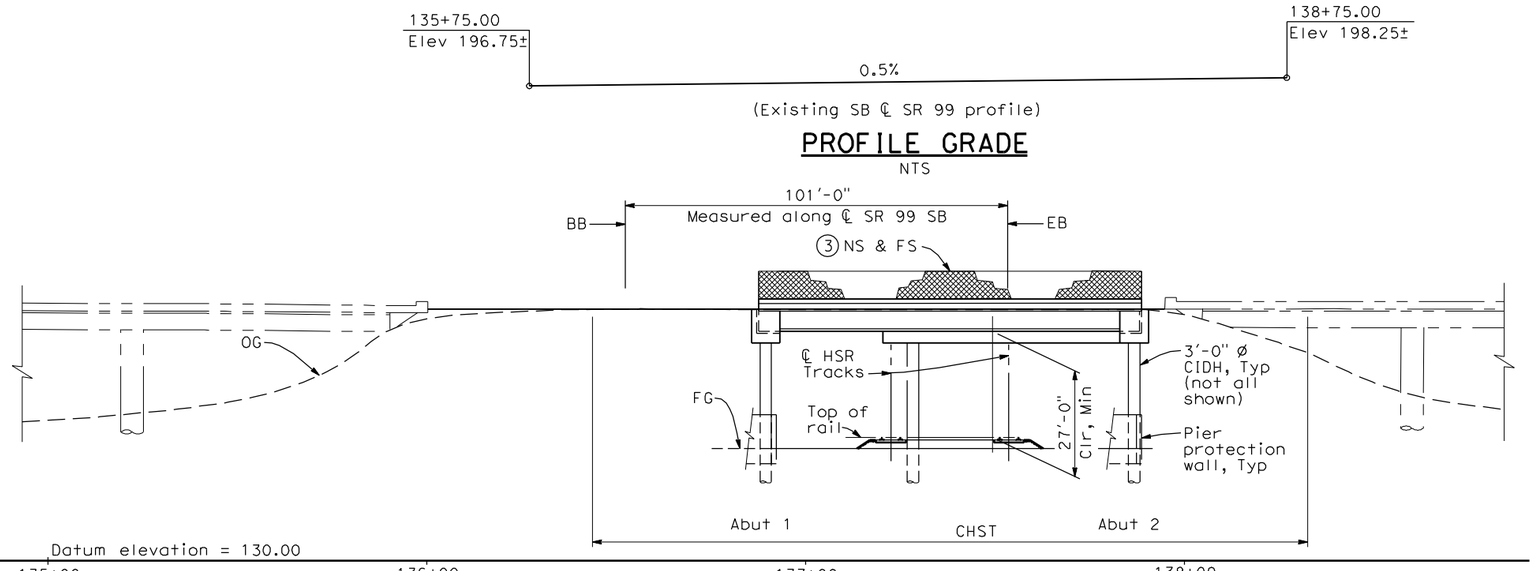
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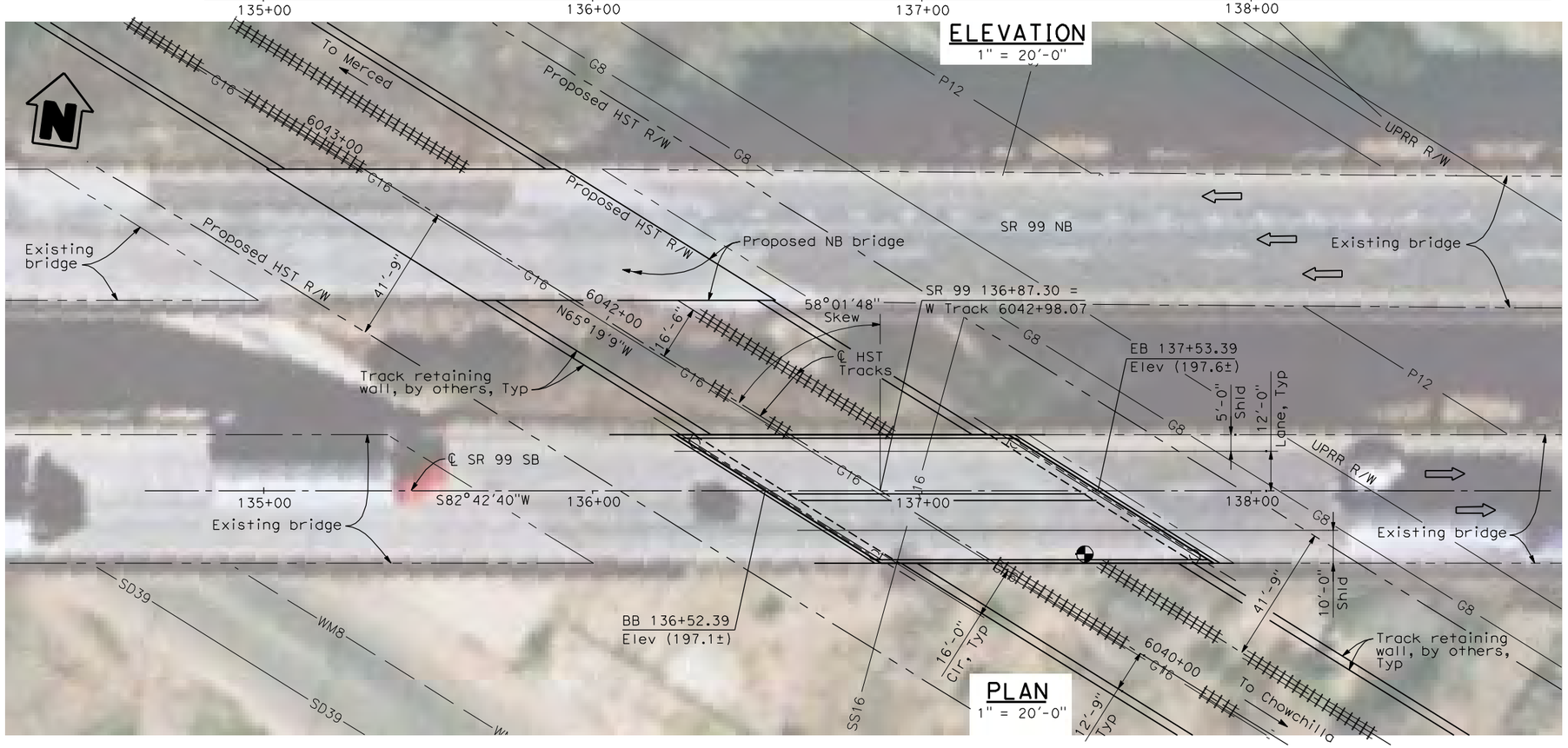
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

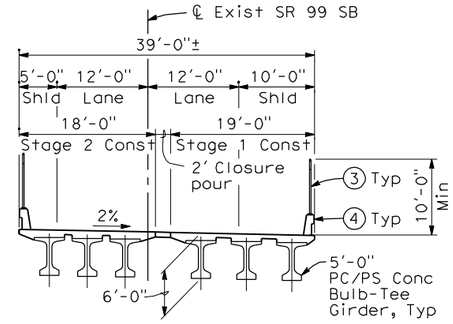
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MERCED CONNECTION
AVENUE 21
LE GRAND ROAD OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1114
SCALE As shown
SHEET NO. OF

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cisnerose







TYPICAL SECTION

1" = 10'-0"

NOTES:

1. Paint "Bridge No. WX-YY"
2. Paint "SR 99 OH"
3. Chain Link Railing Type 7 (Mod)
4. Concrete Barrier Type 732
5. Southbound bridge shown, northbound bridge similar.
6. Bearing, stationing and elevation of SR 99 SB to be verified.
7. Existing underground and overhead utilities to be determined.

LEGEND:

⇦ Direction of traffic

Point of minimum vertical clearance

G = Gas
FO = Fiber Optic
P = Petroleum
SD = Storm Drain
SS = Sanitary Sewer
WM = Water

DATE OF ESTIMATE		
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	6'-0"
LENGTH	=	101'-0"
WIDTH	=	39'-0"
AREA	=	3,950 ft²
COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	
TOTAL COST	=	

LOCATION 67

20 0 20 40
1"=20'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY H. LEE
DRAWN BY B. DOLAN
CHECKED BY L. LEUNG
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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Sacramento, CA 95811
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MERCED CONNECTION
AVENUE 21
SR 99 SOUTHBOUND OVERHEAD
PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1181
SCALE As shown
SHEET NO. OF

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4/30/2011 6:37:49 PM
cisnerose

LOCATION NO.	SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	DRAWING TITLE LINE 5	DRAWING TITLE LINE 6
GENERAL						
		B9190-B	HYBRID	GENERAL	INDEX OF DRAWINGS	SHEET 1 OF 1
		B9191-B	HYBRID	GENERAL	ABBREVIATIONS, SYMBOLS AND NOTES	SHEET 1 OF 1
		B9200-B	HYBRID		INDEX MAP	SHEET 1 OF 2
		B9201-B	HYBRID		INDEX MAP	SHEET 2 OF 2
		CB9200-B	BNSF MAINLINE/WYE/MERCED DO - (HYBRID)	LOCAL & FRONTAGE RD	KEY MAP	SHEET 1 OF 2
		CB9201-B	UPRR/SR99 WYE/MERCED DO - (HYBRID)	LOCAL & FRONTAGE RD	KEY MAP	SHEET 2 OF 2
		CR9190-B	HYBRID	LOCAL ROADS	TYPICAL CROSS SECTIONS	SHEET 1 OF 2
		CR9191-B	HYBRID	LOCAL ROADS	TYPICAL CROSS SECTIONS	SHEET 2 OF 2
		CR9192-B	HYBRID		GENERAL STAGE CONSTRUCTION AND TRAFFIC PLAN	SHEET 1 OF 1
LAYOUT						
46		CR4000-A	BNSF MAIN LINE - (HYBRID)	LOCAL ROAD - ROAD 30 1/2	LAYOUT	SHEET 1 OF 1
47		CR4001-A	BNSF MAIN LINE - (HYBRID)	LOCAL ROAD - ROAD 29	LAYOUT	SHEET 1 OF 1
57		CR4012-A	BNSF MAIN LINE - (HYBRID)	LOCAL ROAD - HANOVER	LAYOUT	SHEET 1 OF 1
67		CR4018-A	BNSF MAIN LINE - (HYBRID)	LOCAL ROAD - ROAD 33	LAYOUT	SHEET 1 OF 1
75		CR9200-B	UPRR/SR99 MERCED DO - (HYBRID)	LOCAL ROAD - WEST FRONTAGE ROAD	LAYOUT	
75		CR9201-B	UPRR/SR99 MERCED DO - (HYBRID)	LOCAL ROAD - WEST FRONTAGE ROAD	LAYOUT	
76		CR9202-B	UPRR/SR99 MERCED DO - (HYBRID)	LOCAL ROAD - WEST FRONTAGE ROAD	LAYOUT	STA 130+00 TO STA 181+00
76		CR9203-B	UPRR/SR99 MERCED DO - (HYBRID)	LOCAL ROAD - WEST FRONTAGE ROAD	LAYOUT	STA 181+00 TO STA 191+27.40
66		CR9204-B	UPRR/SR99 MERCED - (HYBRID)	PROPOSED WEST FRONTAGE ROAD	LAYOUT	STA 191+27.40 TO STA 251+00
66		CR9205-B	UPRR/SR99 MERCED - (HYBRID)	PROPOSED WEST FRONTAGE ROAD	LAYOUT	STA 251+00 TO STA 311+00
66		CR9206-B	UPRR/SR99 MERCED - (HYBRID)	PROPOSED WEST FRONTAGE ROAD	LAYOUT	STA 311+00 TO STA 369+00
66		CR9207-B	UPRR/SR99 MERCED - (HYBRID)	PROPOSED WEST FRONTAGE ROAD	LAYOUT	STA 369+00 TO STA 404+20.27
77		CR9208-B	UPRR/SR99 MERCED DO - (HYBRID)	LOCAL ROAD - ROAD 11	LAYOUT	
77		CR9209-B	UPRR/SR99 MERCED DO - (HYBRID)	LOCAL ROAD - ROAD 11	LAYOUT	
76		CR9210-B	UPRR/SR99 MERCED DO - (HYBRID)	LOCAL ROAD - SANDY MUSH ROAD	LAYOUT	STA 30+00 TO STA 33+00
77		CR9211-B	UPRR/SR99 MERCED DO - (HYBRID)	LOCAL ROAD - CROSS ROAD	LAYOUT	STA 120+00 TO STA 140+00
80		CR9212-B	UPRR/SR99 MAINLINE/WYE DO - (HYBRID)	LOCAL ROAD - AVENUE 24 1/2	LAYOUT	
80		CR9213-B	UPRR/SR99 WYE DO - (HYBRID)	LOCAL ROAD - AVENUE 24 1/2	LAYOUT	
81		CR9214-B	UPRR/SR99 MAINLINE/WYE DO - (HYBRID)	LOCAL ROAD - ROAD 12	LAYOUT	STA 50+00 TO 95+58.26 & STA 71+00 TO 81+00
82		CR9215-B	UPRR/SR99 MERCED DO - (HYBRID)	LOCAL ROAD - ROAD 12 1/2 & AVENUE 24 3/4	LAYOUT	STA 81+00 TO STA 96+00
82		CR9216-B	UPRR/SR99 MERCED/WYE DO - (HYBRID)	LOCAL ROAD - AVENUE 24 3/4	LAYOUT	STA 96+00 TO STA 109+18.38
78		CR9217-B	BNSF MAINLINE /WYE DO - (HYBRID)	LOCAL ROAD - AVENUE 24	LAYOUT	STA 75+00 TO STA 100+00
78		CR9218-B	BNSF MAINLINE/WYE DO - (HYBRID)	LOCAL ROAD - AVENUE 24	LAYOUT	STA 100+00 TO STA 116+86.44
85		CR9219-B	UPRR/SR99 MERCED - (HYBRID)	HEALY ROAD	LAYOUT	
86		CR9220-B	UPRR/SR99 MERCED - (HYBRID)	GERARD AVENUE/CALTRANS FRONTAGE ROAD	LAYOUT	

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REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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Technical Services, Inc.
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Sacramento, CA 95811
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

HYBRID
GENERAL
INDEX OF DRAWINGS
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. B9190-B
SCALE NONE
SHEET NO. ### OF ###

ABBREVIATIONS

ALIGNMENT

HORIZONTAL

BC	BEGINNING OF CURVE
EC	END OF CURVE
PC	POINT OF CURVE
PCC	POINT OF COMPOUNT CURVES
PI	POINT OF INTERSECTION OF TWO TANGENTS
POB	POINT OF BEGINNING
POC	POINT ON CURVE
POE	POINT OF ENDING
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVES
PT	POINT OF TANGENCY
R	RADIUS OF CURVATURE IN FEET
V, DS	DESIGN VELOCITY IN MILES PER HOUR

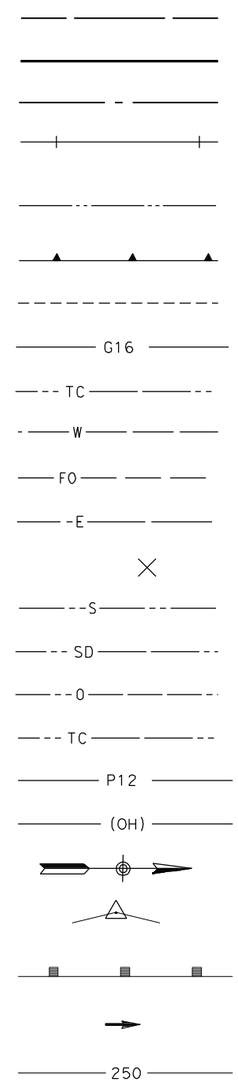
VERTICAL

BVC	BEGIN OF VERTICAL CURVE
EVC	END OF VERTICAL CURVE
PVC	POINT OF VERTICAL CURVE (BEGINNING OF CURVE)
PVI	POINT OF VERTICAL INTERSECTION (OF TANGENTS)
PVT	POINT OF VERTICAL TANGENCY (ENDING OF CURVE)
VC	VERTICAL CURVE

MISCELLANEOUS

ALT	ALTERNATIVE
AVE	AVENUE
BB	BEGIN BRIDGE
BEG	BEGIN
BLVD	BOULEVARD
℄	CENTER LINE
CL	CENTERLINE, CLASS
CLR	CLEAR
COL	COLUMN
DWG	DRAWING
EB	END BRIDGE
ELEV	ELEVATION
EQ	EQUATION
ES	EDGE OF SIDEWALK
ETW	EDGE OF TRAVELED WAY
EXIST(E)	EXISTING
FL	FLOW LINE
HORIZ	HORIZONTAL
HP	HINGE POINT
HST	HIGH SPEED TRAIN
HWY	HIGHWAY
IC	INTERCHANGE
IN	INCH
L	LENGTH
LT	LEFT
MBGR	METAL BEAM GUARD RAIL
ML	MAINLINE
MPH	MILES PER HOUR
MAX	MAXIMUM
MIN	MINIMUM
N	NORTH
NB	NORTH BOUND
No, NO	NUMBER
NTS	NOT TO SCALE
OG	ORIGINAL GROUND
O/H OH	OVERHEAD
PG&E	PACIFIC GAS & ELECTRIC
PGL, FG	PROFILE GRADE LINE
RET	RETAINING
RR	RAILROAD
RD	ROAD
R/W	RIGHT OF WAY
RT	RIGHT
SB	SOUTH BOUND
SHLD	SHOULDER
SR	STATE ROUTE
SHT	SHEET
SS	SANITARY SEWER
SSD	STOPPING SIGHT DISTANCE
ST	STREET
STA	STATION
STD	STANDARD
SD	STORM DRAIN
STRUCT, STR	STRUCTURE
T	TANGENT
TEL	TELEPHONE
	(OH) OVERHEAD LINE
	(UG) UNDERGROUND LINE
TOR	TOP OF RAIL
TK	TRACK
TYP	TYPICAL
TBD	TO BE DETERMINED
TF	TELECOMMUNICATIONS FIBER OPTIC
UPRR	UNION PACIFIC RAILROAD
VAR	VARIES
V VERT	VERTICAL
W	WATER, WEST

SYMBOLS



MATCH LINE

HST TRACK

PROPOSED HST RIGHT-OF-WAY

FREIGHT/PASSENGER TRACK - EXISTING

EXISTING RIGHT-OF-WAY OR EXISTING BRIDGE FEATURES

RETAINING WALLS

ORIGINAL GROUND

GAS LINE (16")

COMMUNICATION LINE

WATER LINE

FIBER OPTIC LINE

ELECTRICAL LINE

ELECTRICAL TOWER

SEWER LINE

STORM DRAIN LINE

FUEL LINE

TELEPHONE LINE

PETROLEUM LINE (12")

OVERHEAD

NORTH ARRROW

PVI

MBGR

DIRECTION OF TRAVEL

250 PROPOSED CONTOUR

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. LI
DRAWN BY A. TRINH
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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2020 L Street, Suite 300
Sacramento, CA 95811
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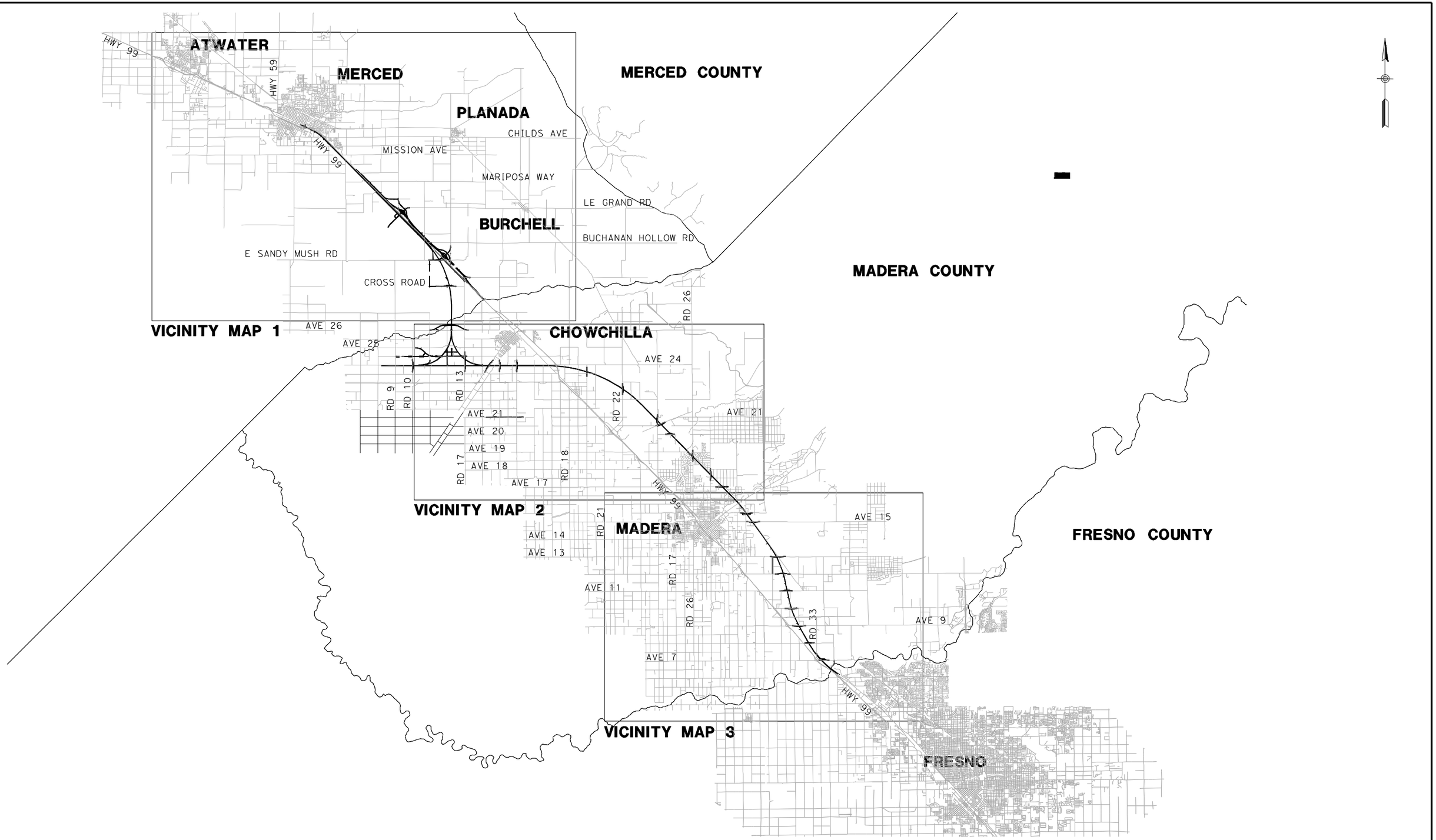
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
HYBRID
GENERAL
ABBREVIATIONS, SYMBOLS AND NOTES
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. B9191-B
SCALE NO SCALE
SHEET NO. ### OF ###

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REV	DATE	BY	CHK	APP	DESCRIPTION
2	02/24/2012	RG			
1	12/28/2011	RG			

DESIGNED BY D. AYELE
DRAWN BY A. TRINH
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 02/17/2012

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

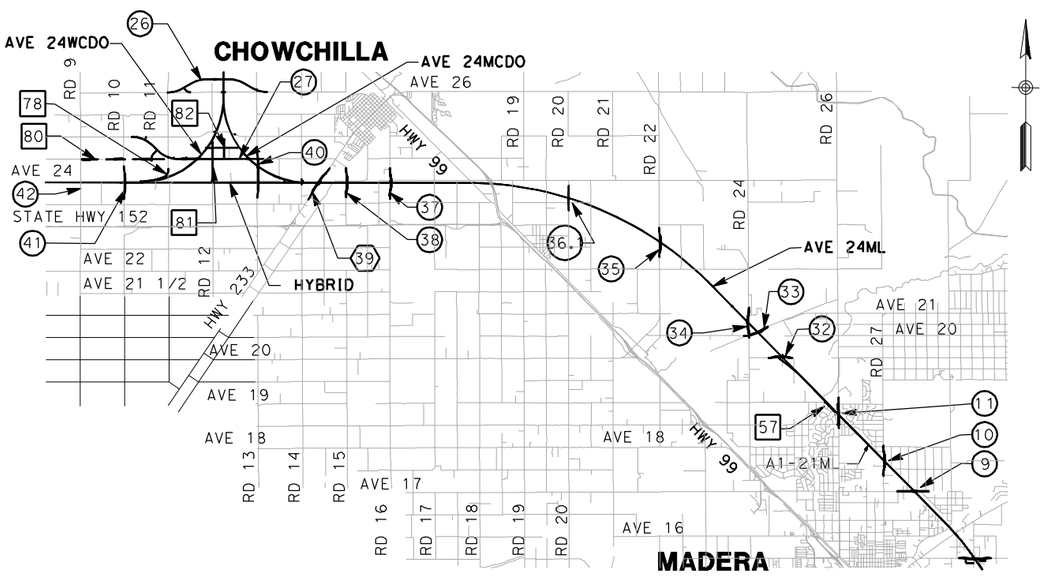
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
HYBRID

INDEX MAP
SHEET 1 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. B9200-B
SCALE NO SCALE
SHEET NO. ### OF ###

LOCATION NO.	SHEET TITLE	ROADWAY DWG NO.	STR DWG NO.
(1)	GRADE SEPARATION - AVENUE 9	CT0001-A - CT0003-A	ST1001
(2)	GRADE SEPARATION - AVENUE 10	CT0004-A - CT0006-A	ST1002
(3)	GRADE SEPARATION - AVENUE 11	CT0007-A - CT0009-A	ST1003
(4)	GRADE SEPARATION - AVENUE 12	CT0010-A - CT0012-A	ST1004
(5)	GRADE SEPARATION - AVENUE 13	CT0013-A - CT0016-A	ST1005
(6)	GRADE SEPARATION - AVENUE 15	CT0017-A - CT0019-A	ST1006
(7)	GRADE SEPARATION - AVENUE 15 1/2	CT0020-A - CT0022-A	ST1007
(9)	GRADE SEPARATION - AVENUE 17	CT0026-A - CT0028-A	ST1009
(10)	GRADE SEPARATION - ROAD 27	CT0029-A - CT0031-A	
(11)	GRADE SEPARATION - ROAD 26	CT0032-A - CT0034-A	
⟨19⟩	GRADE SEPARATION - LE GRAND INTERCHANGE	CT7208-B - CT7214-B	ST1114
(25)	GRADE SEPARATION - CROSS ROAD	CT5238-B - CT5240-B	ST1136
(26)	GRADE SEPARATION - AVENUE 26 ALT 1	CT5227-B - CT5236-B	ST1135
	UNDERPASS - AVENUE 26 ALT 2	CT5246-B - CT5248-B	
(27)	GRADE SEPARATION - AVENUE 25	CT5210-B - CT5221-B	ST1133 - ST1134
(32)	GRADE SEPARATION - AVENUE 20	CT0113-A - CT0115-A	ST1035
(33)	GRADE SEPARATION - AVENUE 20 1/2	CT0116-A - CT0118-A	ST1036 - ST1037
(34)	GRADE SEPARATION - ROAD 24	CT0119-A - CT0121-A	ST1038 - ST1039
(35)	GRADE SEPARATION - ROAD 22	CT0122-A - CT0124-A	ST1040
⟨35.⟩	SANDY MUSH RD INTERCHANGE	CT7204-B - CT7207-B	ST1142
(36.)	GRADE SEPARATION - ROAD 20	CT0125.1-A-CT0127.1-A	ST1041

LOCATION NO.	SHEET TITLE	ROADWAY DWG NO.	STR DWG NO.
(37)	GRADE SEPARATION - ROAD 16	CT0128-A - CT0130-A	ST1042
(38)	GRADE SEPARATION - ROAD 15	CT0131-A - CT0133-A	ST1043
⟨39⟩	GRADE SEPARATION - ROBERTSON BLVD (SR233) ALT 1	CT7200-B - CT7203-B	ST1150
	UNDERPASS - ROBERTSON BLVD (SR233) ALT 2	CT7215-B - CT7217-B	
(40)	GRADE SEPARATION - ROAD 13	CT5203-B - CT5207-B	ST1121 & ST1139
(41)	GRADE SEPARATION - ROAD 10 ALT 1	CT5200-B - CT5202-B	ST1160
	GRADE SEPARATION - ROAD 10 ALONG EXIST ALT 2	CT5249-B - CT5251-B	ST1160
(42)	GRADE SEPARATION - ROAD 9	CT0143-A - CT0145-A	ST1120
(64)	GRADE SEPARATION - G STREET	CT0149-A	ST1180
(65)	GRADE SEPARATION - AVENUE 7	CT0146-A - CT0148-A	
⟨43⟩	CALTRANS - AVENUE 8	CT2000-A - CT2002-A	ST1000
[46]	LOCAL ROAD - ROAD 30 1/2	CR4000-A	
[47]	LOCAL ROAD - ROAD 29	CR4001-A	
[57]	LOCAL ROAD - HANOVER DR	CR4012-A	
[66]	PROPOSED WEST FRONTAGE ROAD	CR9204-B - CR9207-B	
[67]	LOCAL ROAD - ROAD 33	CR4018-A	
[75]	LOCAL ROAD - WEST FRONTAGE ROAD	CR9200-B - CR9201-B	
[76]	LOCAL ROAD - SANDY MUSH ROAD	CR9210-B	
	LOCAL ROAD - WEST FRONTAGE ROAD	CR9202-B - CR9203-B	
[77]	LOCAL ROAD - ROAD 11	CR9208-B - CR9209-B	
	LOCAL ROAD - CROSS ROAD	CR9211-B	
[78]	LOCAL ROAD - AVENUE 24	CR9217-B - CR9218-B	
[80]	LOCAL ROAD - AVENUE 24 1/2	CR9212-B - CR9213-B	
[81]	LOCAL ROAD - ROAD 12	CR9214-B	
[82]	LOCAL ROAD - ROAD 12 1/2 & AVE 24 3/4	CR9215-B	
	LOCAL ROAD - AVENUE 24 3/4	CR9216-B	
[85]	HEALY RD	CR9219-B	
[86]	GERARD AVE/CALTRANS FRONTAGE RD	CR9220-B	



VICINITY MAP 2

VICINITY MAP 3

VICINITY MAP 1

LOCATION NUMBER LEGEND

(X) - INDICATES GRADE SEPARATION

⟨X⟩ - INDICATES CALTRANS FACILITIES MODIFICATION

[X] - INDICATES LOCAL ROAD RELOCATION

FOR ROADWAY STRUCTURES SEE STRUCTURAL INDEX MAPS

9000 0 9000 18000
GRAPHIC SCALE

REV	DATE	BY	CHK	APP	DESCRIPTION
2	02/24/2012	RG			
1	12/28/2011	RG			

DESIGNED BY R. GIBSON
DRAWN BY T. WALTZ
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 02/17/2012

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Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

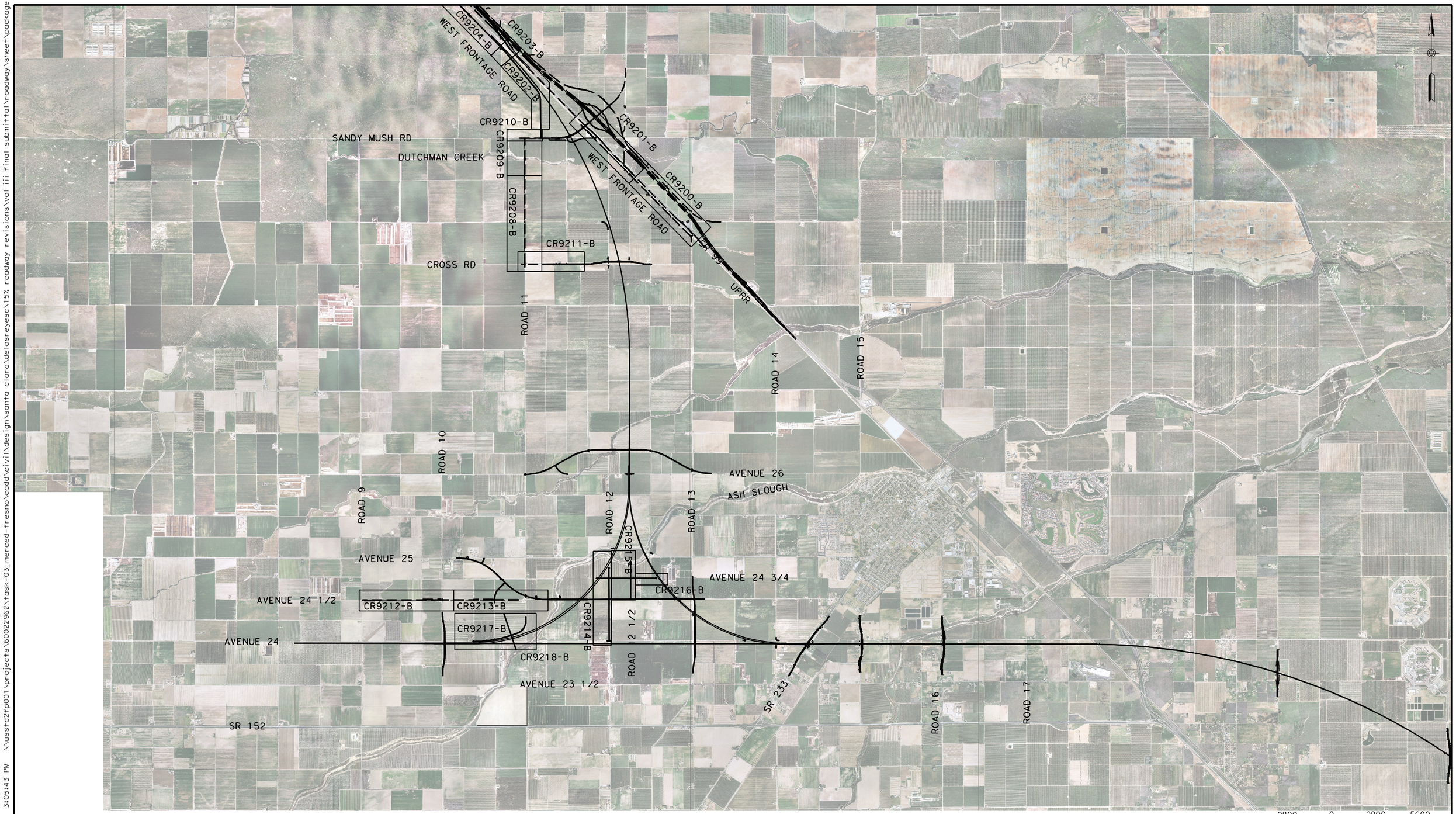
HYBRID

INDEX MAP
SHEET 2 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. B9201-B
SCALE NO SCALE
SHEET NO. ### OF ###

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 06/30/2011

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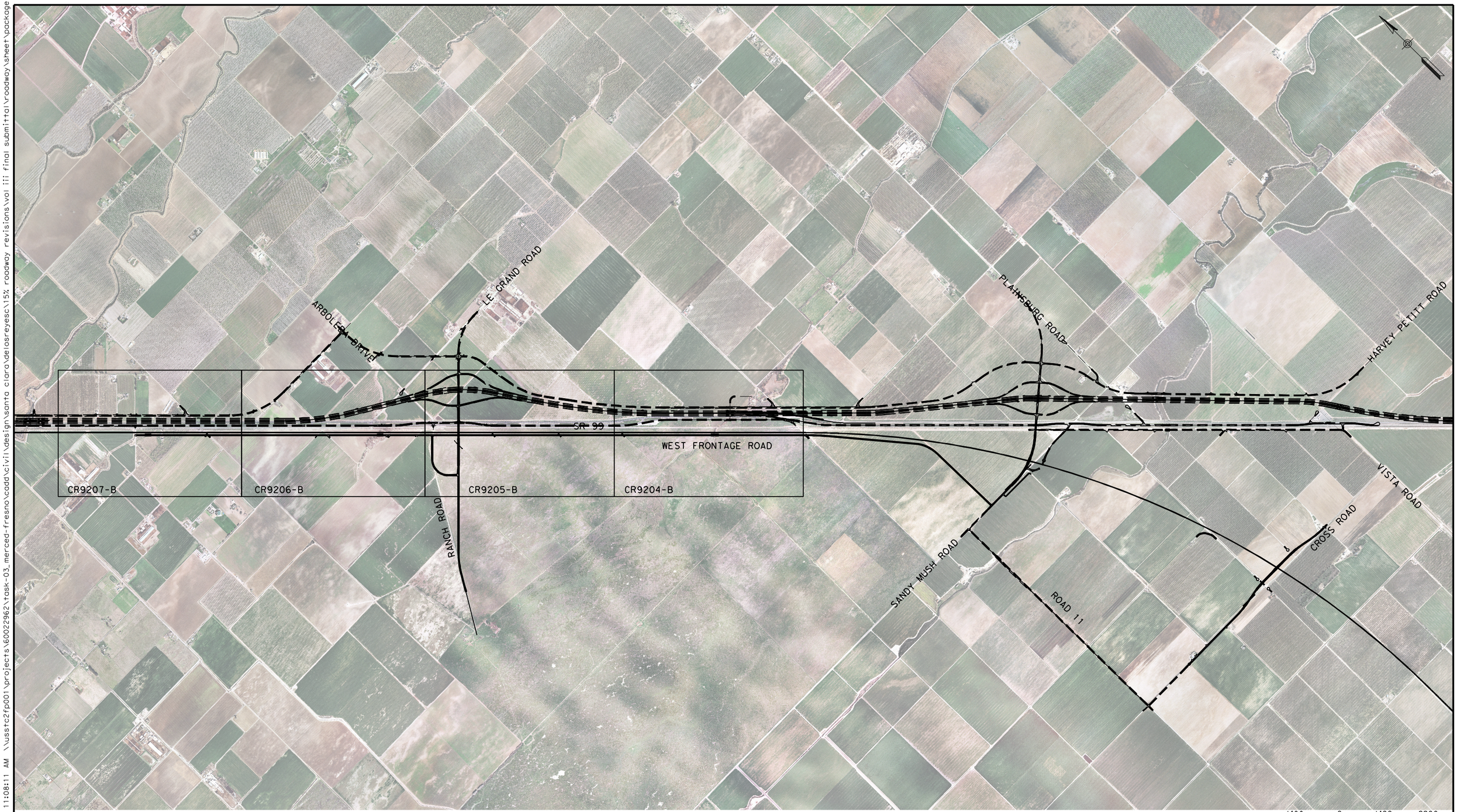
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE/WYE/MERCED DO - (HYBRID)
LOCAL & FRONTAGE ROAD
KEY MAP
SHEET 1 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. CB9200-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 06/30/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

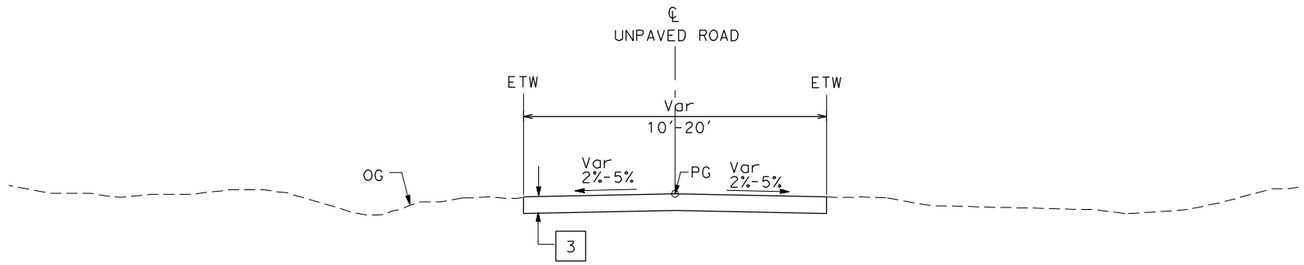
UPRR/SR99 WYE/MERCED DO - (HYBRID)
LOCAL & FRONTAGE RD
KEY MAP
SHEET 2 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. CB9201-B
SCALE AS SHOWN
SHEET NO. ### OF ###

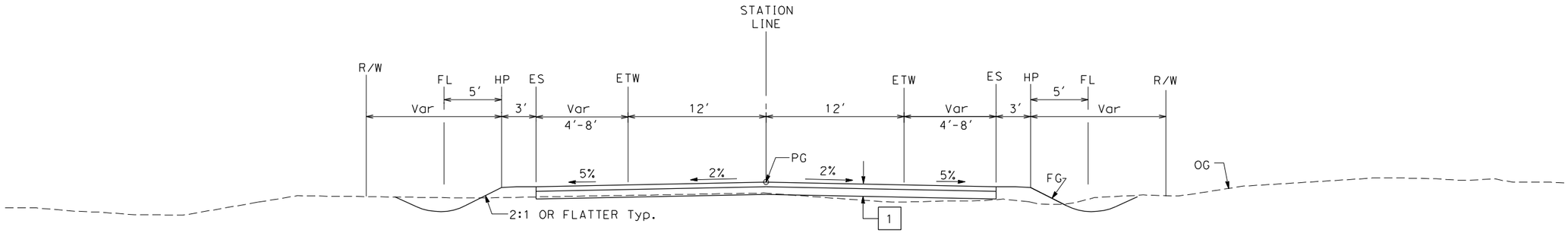
STRUCTURAL SECTIONS:

1 — HMA TYPE A
AB CLASS 2

3 — AB CLASS 2



UNPAVED ROAD (TYP)
SEE LAYOUT SHEETS
FOR ACTUAL ROADWAY WIDTHS



2-LANE FRONTAGE ROAD
SEE LAYOUT SHEETS
FOR ACTUAL SHOULDER WIDTHS

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: K. OAKS
DRAWN BY: K. OAKS
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

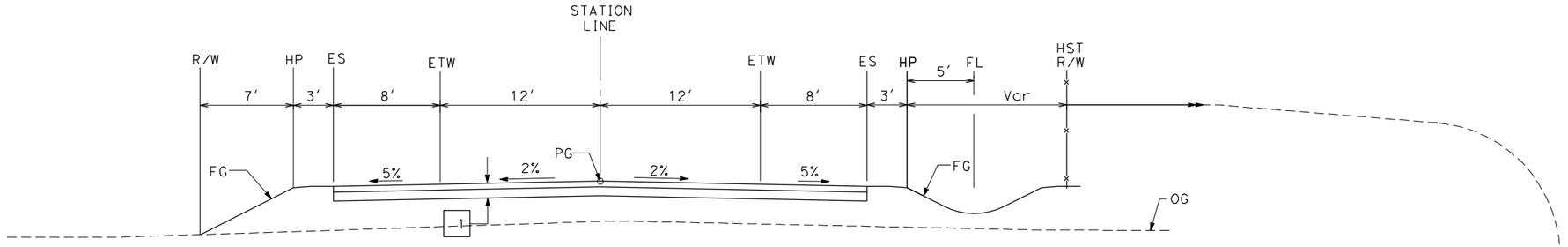
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
HYBRID
LOCAL ROADS
TYPICAL CROSS SECTIONS
SHEET 1 OF 2

CONTRACT NO.: HSR06-007
DRAWING NO.: CR9190-B
SCALE: NTS
SHEET NO.: ### OF ###

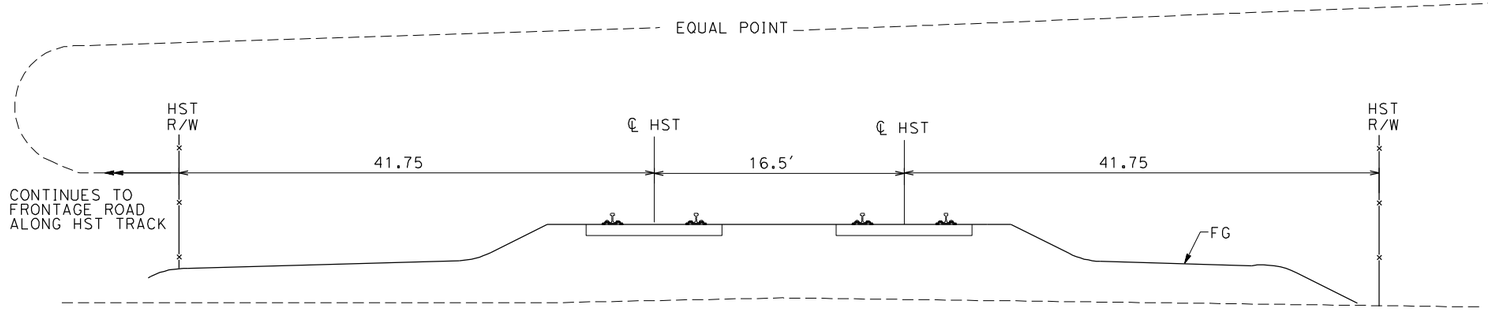
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STRUCTURAL SECTIONS:

1 — HMA TYPE A
AB CLASS 2



2-LANE FRONTAGE ROAD
FRONTAGE ROAD ALONG TRACK ALIGNMENT



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: K. OAKS
DRAWN BY: K. OAKS
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

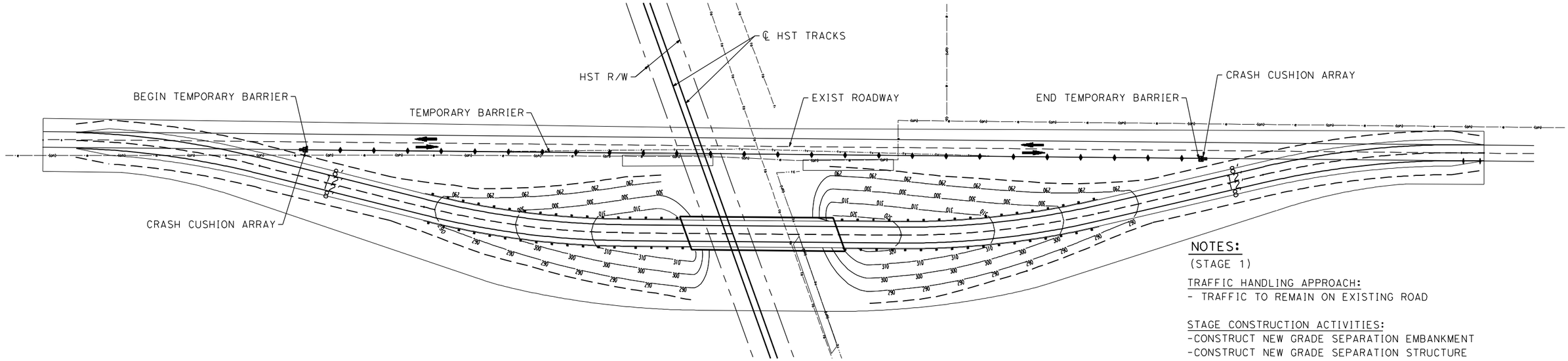
AECOM
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Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
HYBRID
LOCAL ROADS
TYPICAL CROSS SECTIONS
SHEET 2 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. CR9191-B
SCALE NTS
SHEET NO. ### OF ###

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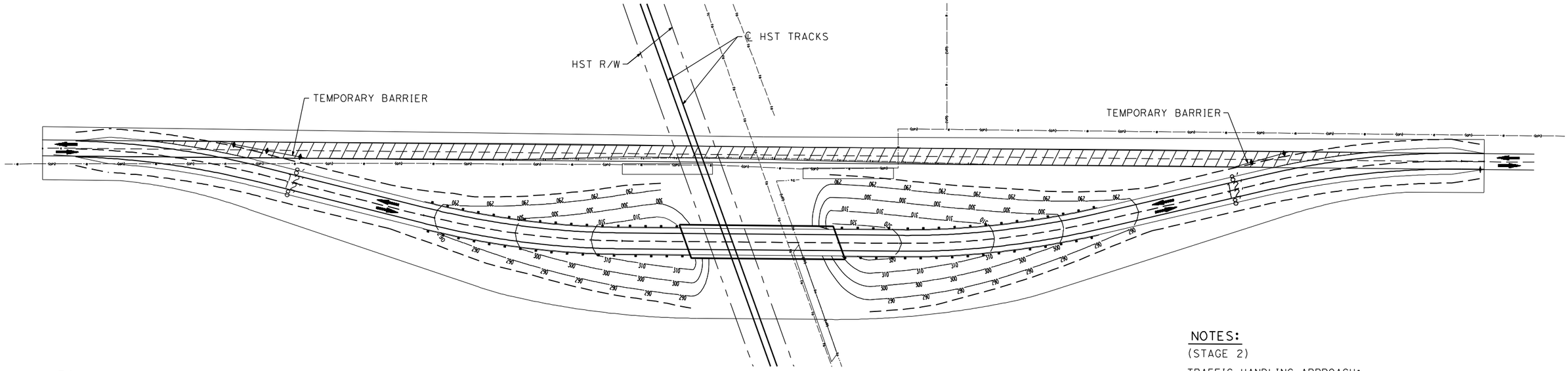


STAGE CONSTRUCTION (STAGE 1)

NOTES:
(STAGE 1)

TRAFFIC HANDLING APPROACH:
- TRAFFIC TO REMAIN ON EXISTING ROAD

STAGE CONSTRUCTION ACTIVITIES:
-CONSTRUCT NEW GRADE SEPARATION EMBANKMENT
-CONSTRUCT NEW GRADE SEPARATION STRUCTURE
-CONSTRUCT DRAINAGE FACILITY



STAGE CONSTRUCTION (STAGE 2)

NOTES:
(STAGE 2)

TRAFFIC HANDLING APPROACH:
- SHIFT TRAFFIC TO NEW GRADE SEPARATION FACILITY

STAGE CONSTRUCTION ACTIVITIES:
-CONSTRUCT REALIGNED ROAD CONFORMS
-COMPLETE DRAINAGE FACILITIES
-REMOVE SURFACE AND BASE OF EXIST ROAD

LEGEND

- CRASH CUSHION ARRAY (TYPE U11)
- TEMPORARY BARRIER (TYPE K)
- DIRECTION OF TRAVEL
- REMOVE BASE AND SURFACING (EXIST ROAD)

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: S. WONG
DRAWN BY: F. DEMARCO
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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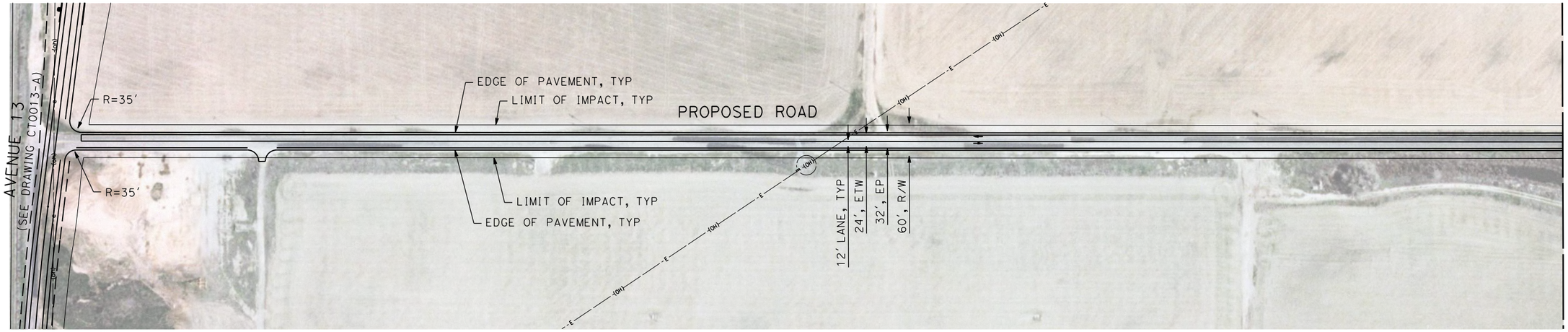
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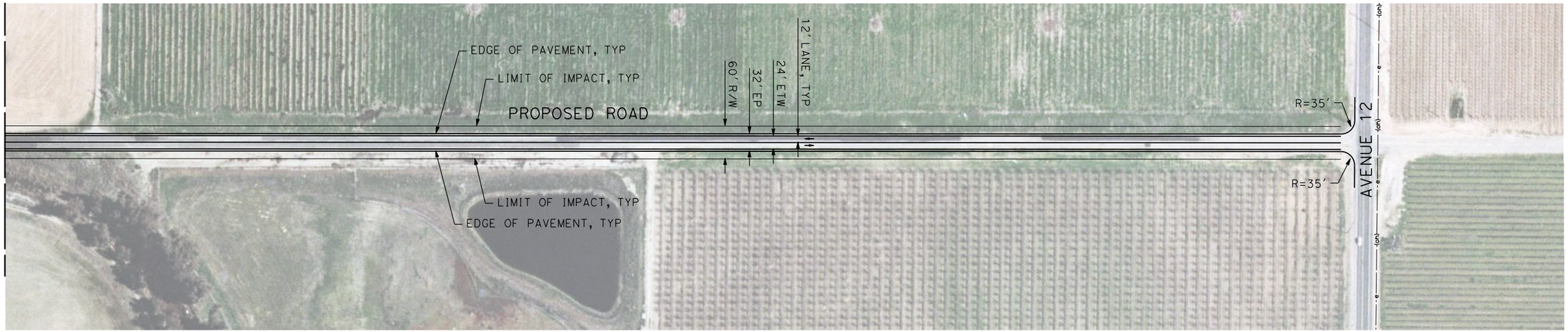
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
HYBRID

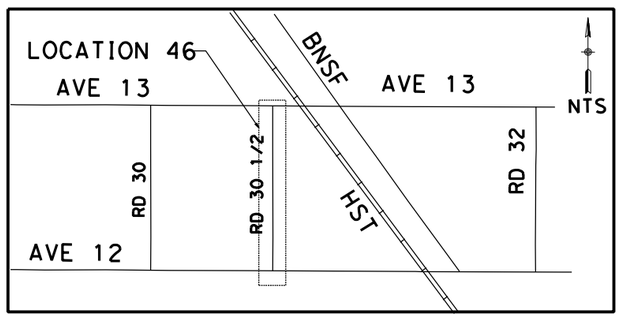
GENERAL STAGE CONSTRUCTION AND TRAFFIC PLAN
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. CR9192-B
SCALE NO SCALE
SHEET NO. ### OF ###

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GRAPHIC SCALE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: R. GIBSON
DRAWN BY: H. PHAN
CHECKED BY: J. ZANDIAN
IN CHARGE: A. BOONE
DATE: 07/27/2011

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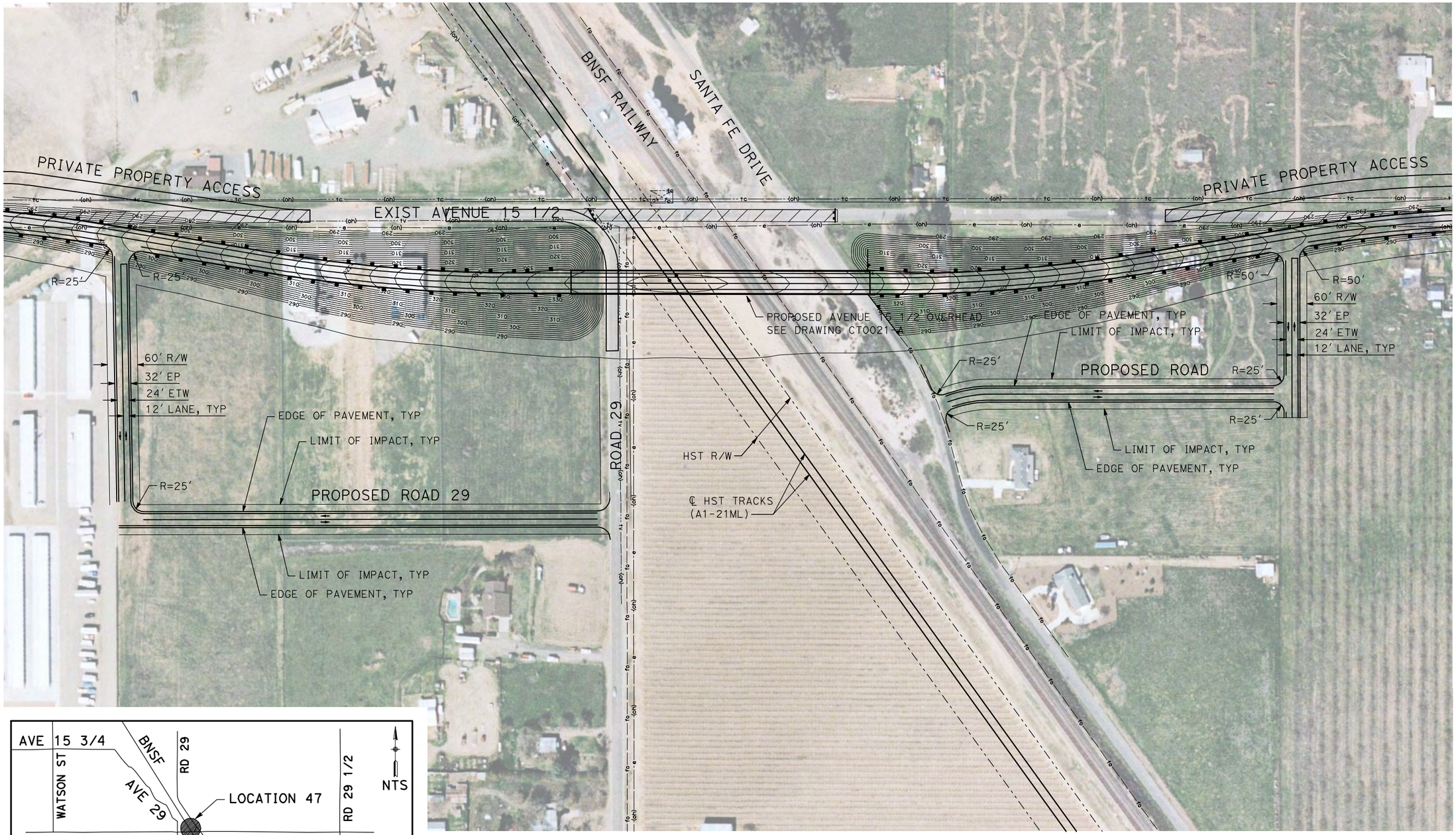
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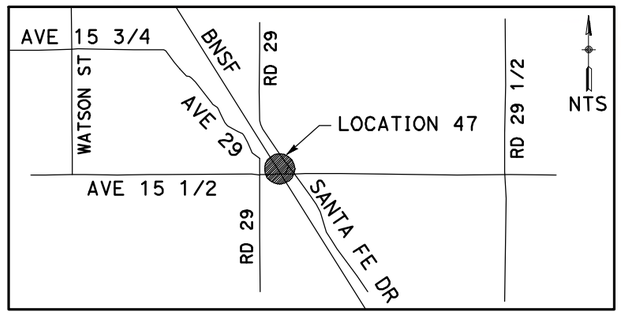
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
LOCAL ROAD - ROAD 30 1/2
LAYOUT
SHEET 1 OF 1

CONTRACT NO. HST06-007
DRAWING NO. CR4000-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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GRAPHIC SCALE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: R. GIBSON
DRAWN BY: H. PHAN
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

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AECOM Technical Services, Inc.
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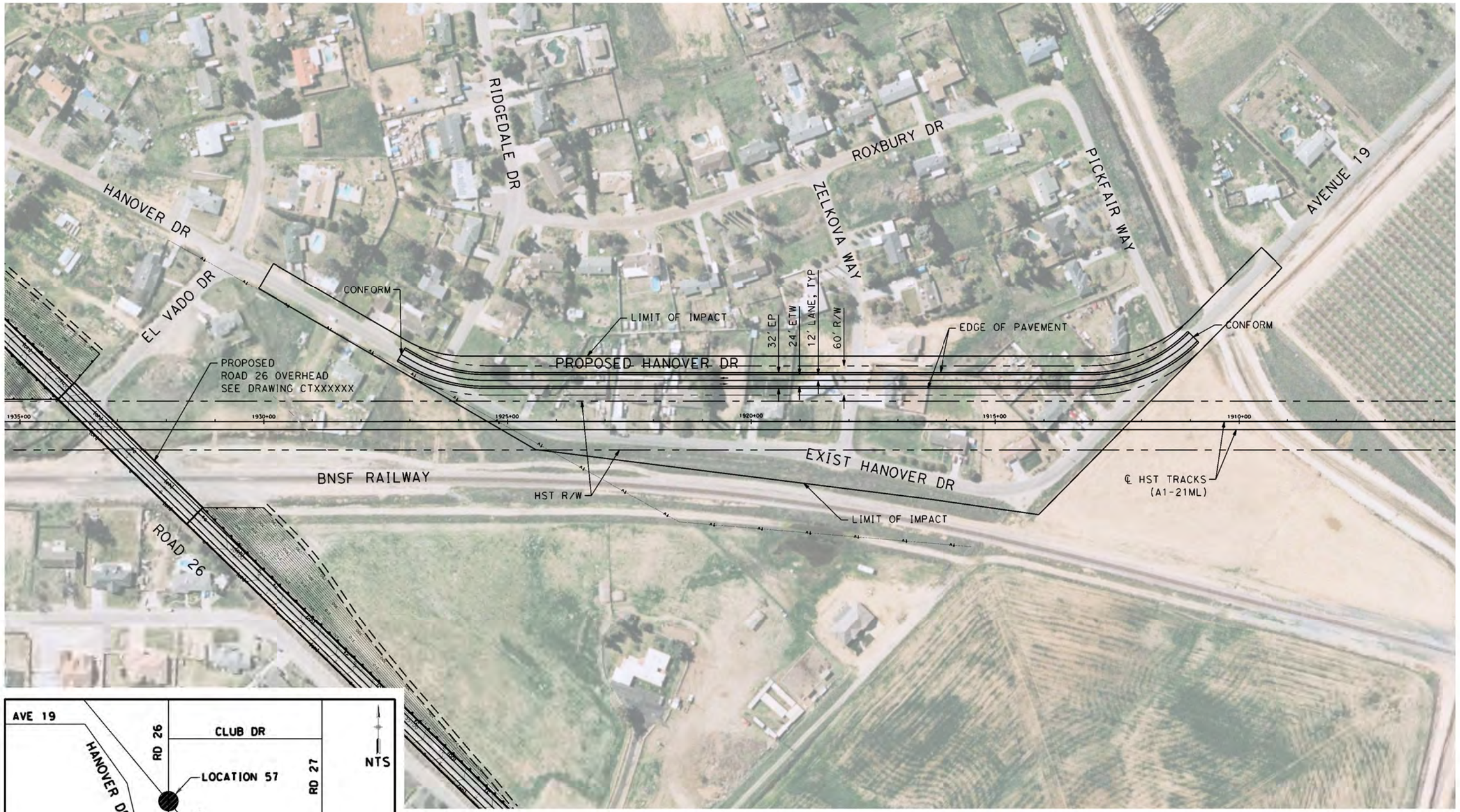
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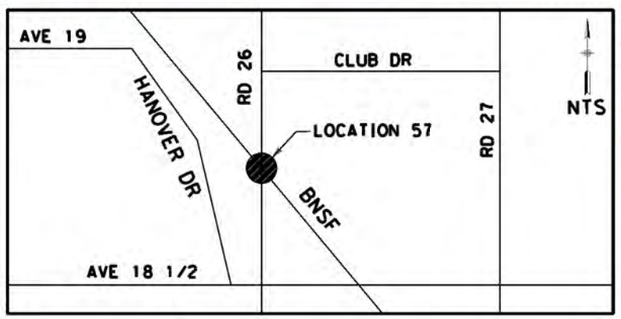
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE - (HYBRID)
LOCAL ROAD - ROAD 29
LAYOUT
SHEET 1 OF 1

CONTRACT NO. HST06-007
DRAWING NO. CR4001-A
SCALE AS SHOWN
SHEET NO. OF ###

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GibsonR1





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GRAPHIC SCALE

REV	DATE	BY	CHK	APP	DESCRIPTION

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DRAWN BY H. PHAN
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IN CHARGE A. BOONE
DATE 07/27/2011

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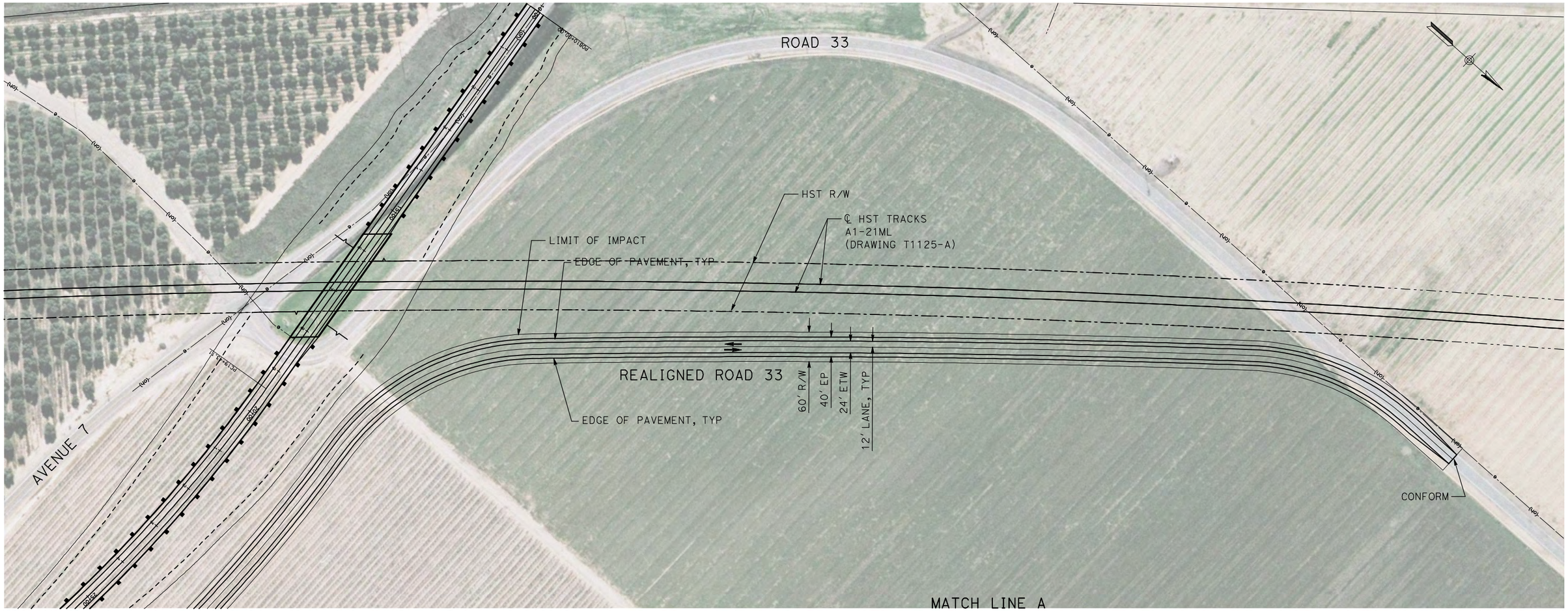
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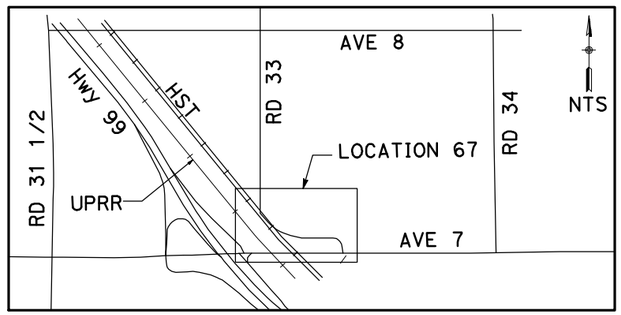
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

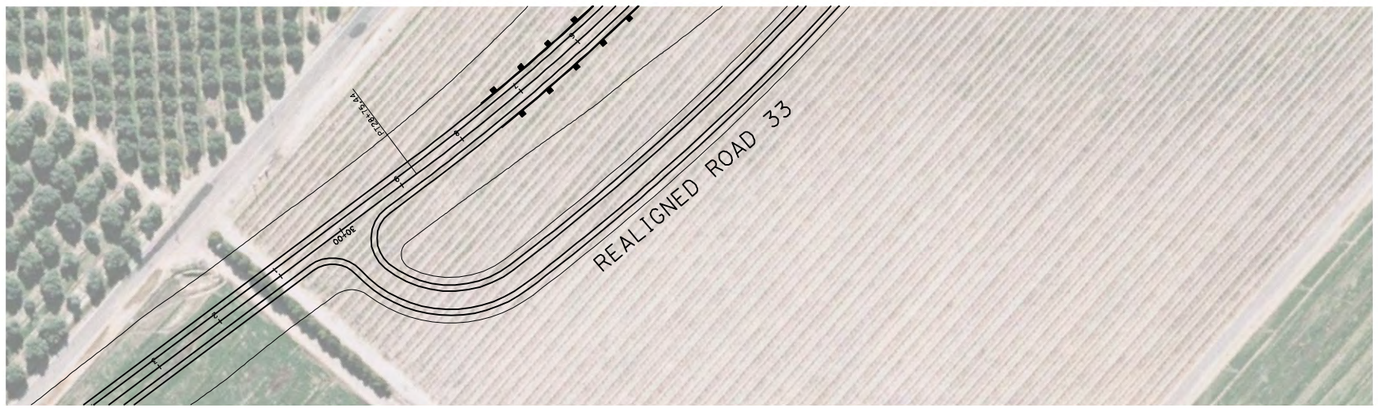
HYBRID MAIN LINE - (AVE 24 WYE)
LOCAL ROAD - HANOVER DR
LAYOUT
SHEET 1 OF 1

CONTRACT NO. HST06-007
DRAWING NO. CR4012-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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GRAPHIC SCALE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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Sacramento, CA 95811

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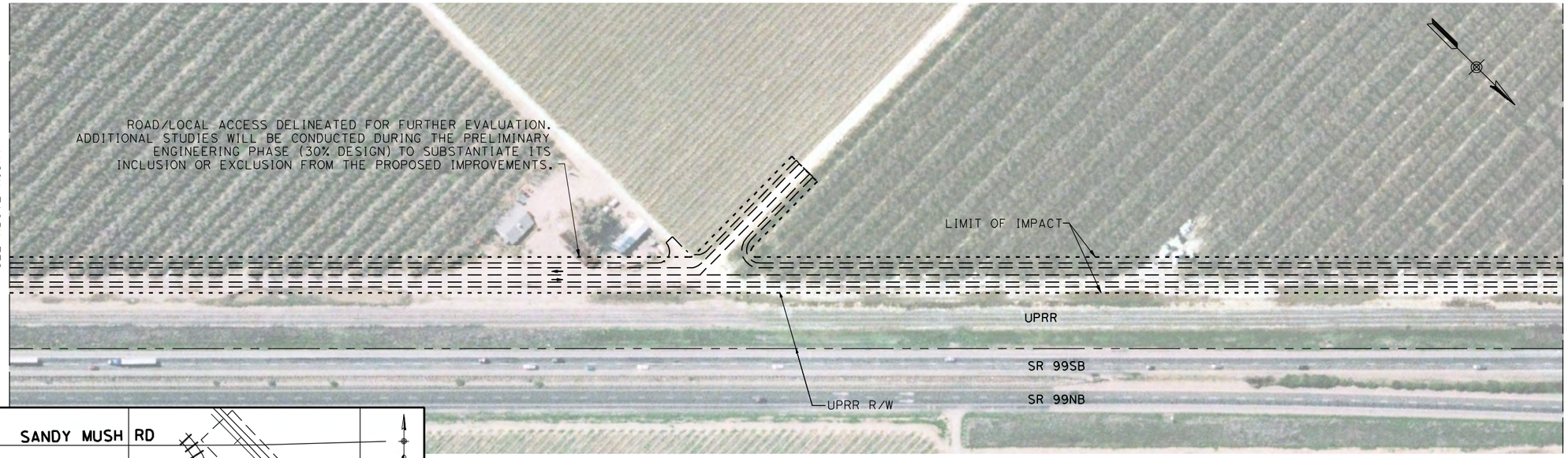
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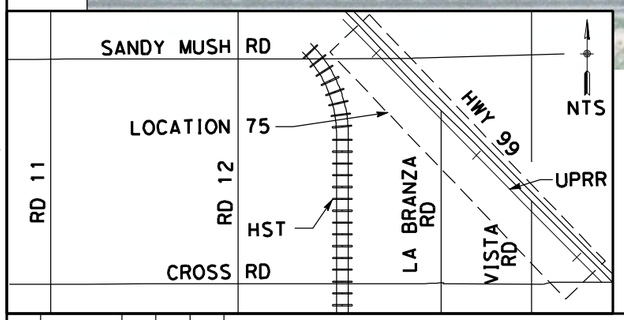
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION - AVE 24 WYE
LOCAL ROAD - ROAD 33
LAYOUT
SHEET 1 OF 1

CONTRACT NO. HST06-007
DRAWING NO. CR4018-A
SCALE AS SHOWN
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GibsonR1







100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED DO - (HYBRID)
LOCAL ROAD - WEST FRONTAGE ROAD
LAYOUT

CONTRACT NO. HSR06-007
DRAWING NO. CR9200-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ReyesC1

SEE DRAWING CR9200-B

DUTCHMAN CREEK

ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDITIONAL STUDIES WILL BE CONDUCTED DURING THE PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPROVEMENTS.

LIMIT OF IMPACT

UPRR R/W

UPRR

SR 99SB

SR 99NB

SEE BELOW LEFT

SEE DRAWING CT7207-B

EXIST SANDY MUSH RD TO REMAIN OPEN DURING CONSTRUCTION)

REALIGNED SANDY MUSH ROAD

LIMIT OF IMPACT

LIMIT OF IMPACT

SEE ABOVE RIGHT

UPRR R/W

UPRR

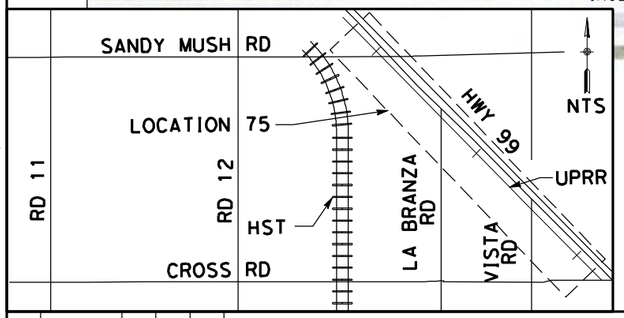
SR 99SB

SR 99NB

LIMIT OF IMPACT

ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDITIONAL STUDIES WILL BE CONDUCTED DURING THE PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPROVEMENTS.

SEE DRAWING CT7207-B



100 0 100 200

H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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Sacramento, CA 95811

CH2MHILL

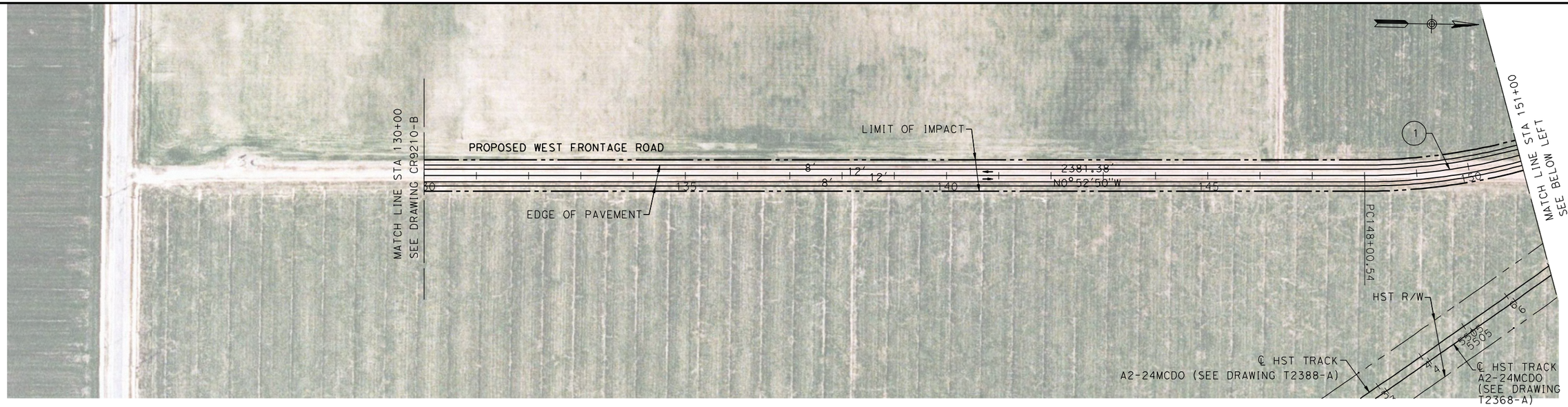
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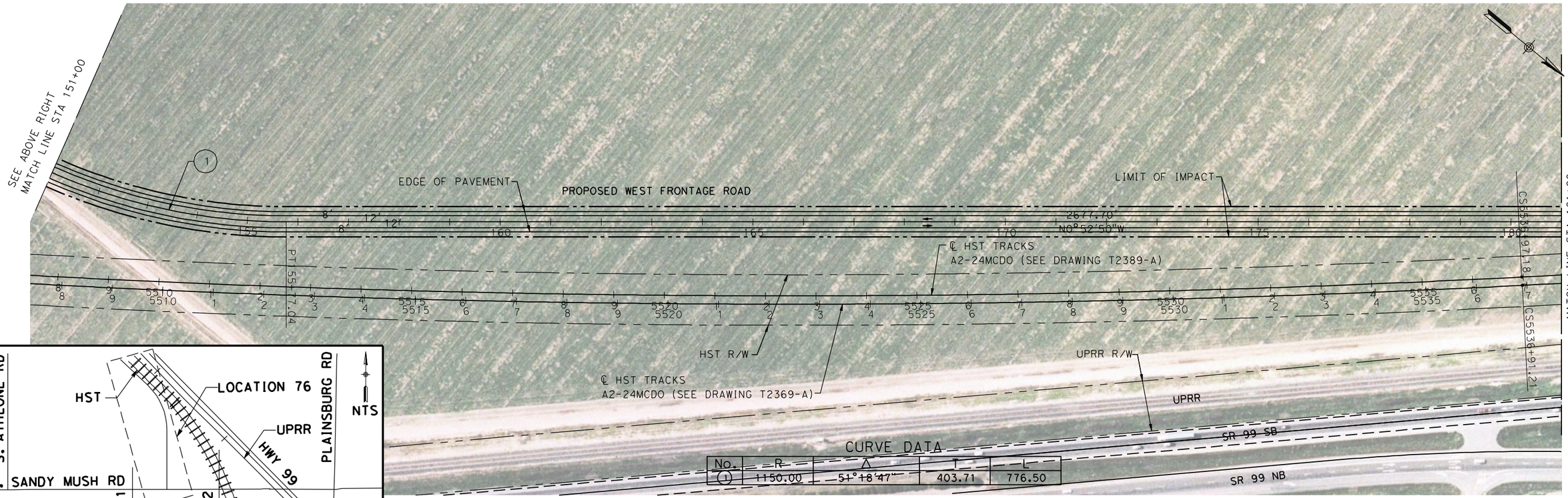
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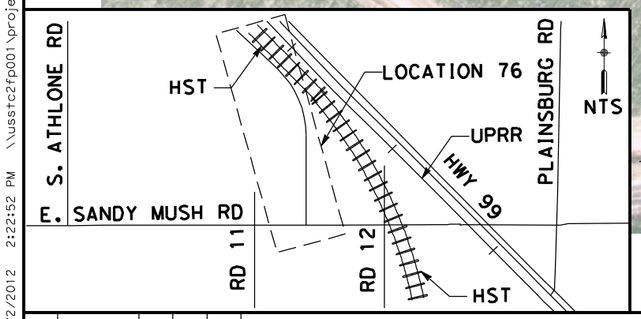
UPRR/SR99 MERCED DO - (HYBRID)
LOCAL ROAD - WEST FRONTAGE ROAD
LAYOUT

CONTRACT NO. HSR06-007
DRAWING NO. CR9201-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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USER=ReyesC1 4/2/2012 2:22:52 PM







REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

NOT FOR CONSTRUCTION

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Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

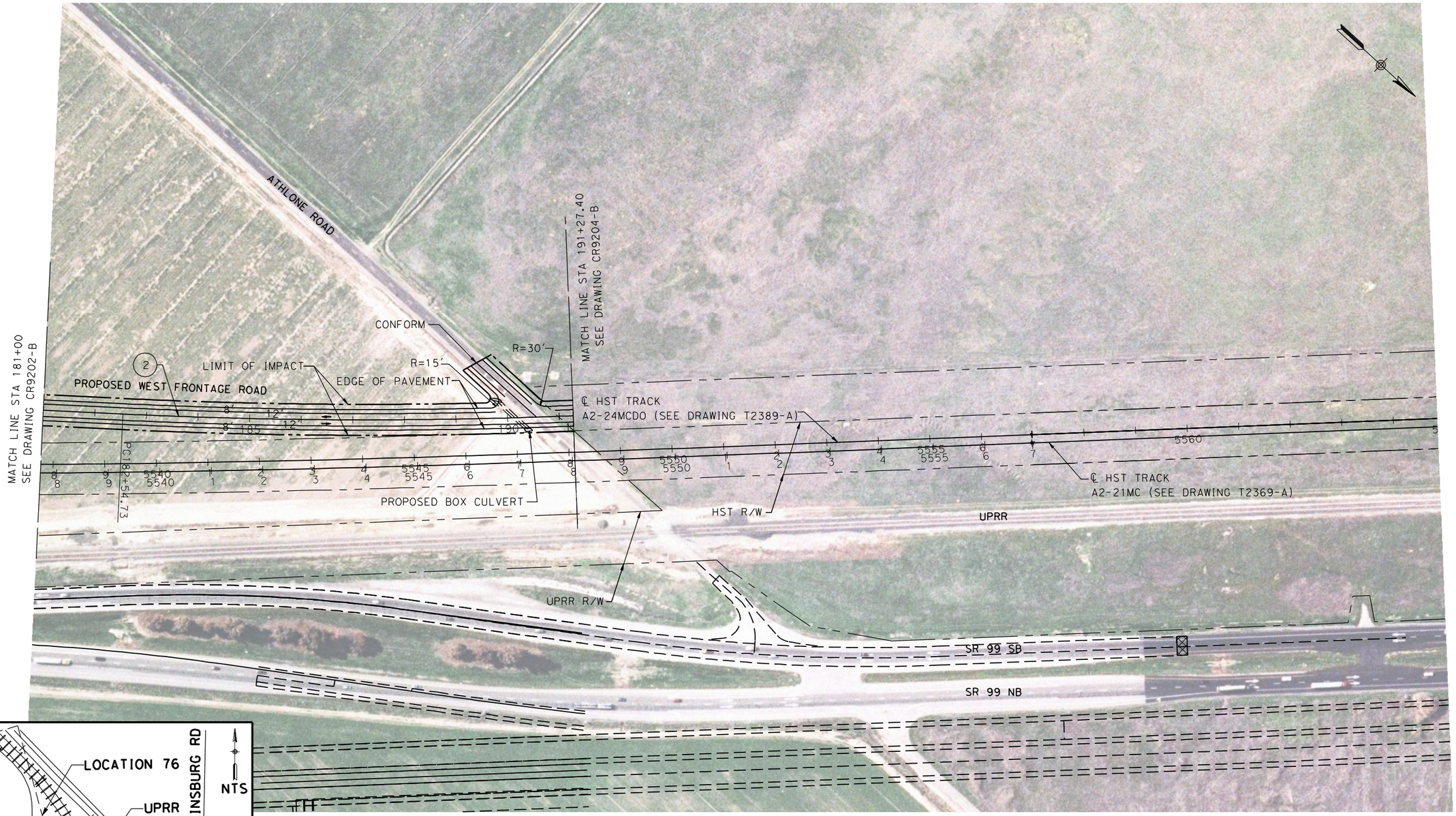
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

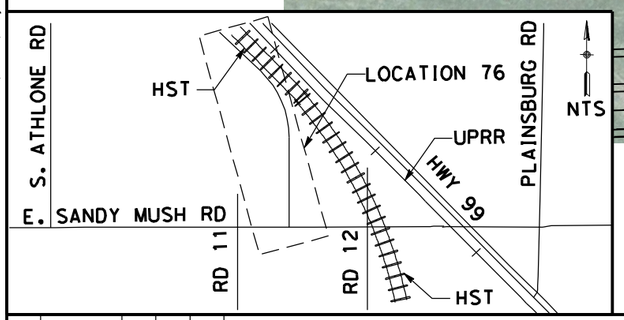
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED DO - (HYBRID)
LOCAL ROAD - WEST FRONTAGE ROAD
LAYOUT
STA 130+00 TO STA 181+00

CONTRACT NO. HSR06-007
DRAWING NO. CR9202-B
SCALE AS SHOWN
SHEET NO. ### OF ###

I:\cadd\civil\design\santa clara\delosreyesc\15% roadway revisions\vol iii final submittal\roadway\sheet\package 3 - 4/2/2012 2:24:03 PM \\usstc2fp001\projects\60022962\task-03_merced-fresno\cadd\civil\design\santa clara\delosreyesc\15% roadway revisions\vol iii final submittal\roadway\sheet\package 3 - USER=ReyesCl





CURVE DATA

No.	R	Δ	T	L
(2)	10000.00	85°0'0"	436.61	872.66

100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
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NOT FOR CONSTRUCTION

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Sacramento, CA 95811
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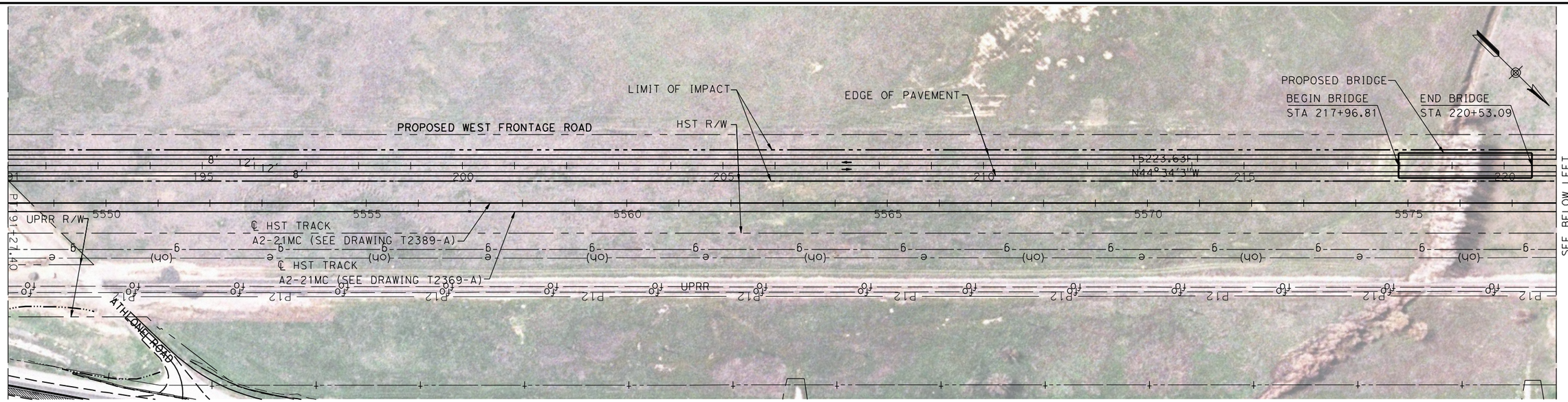
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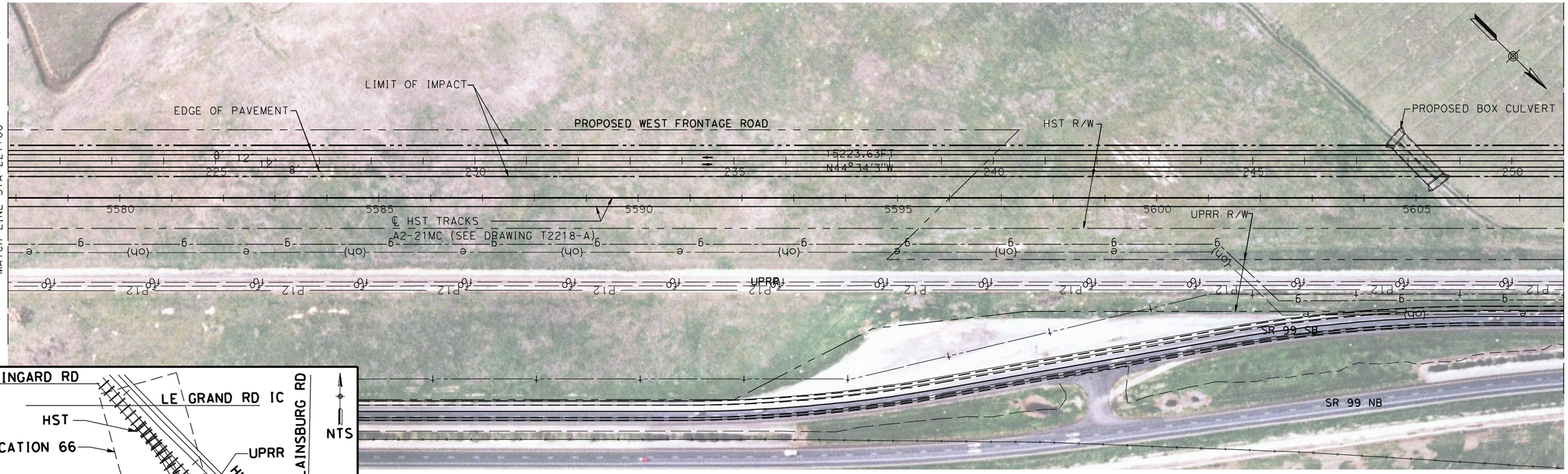
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

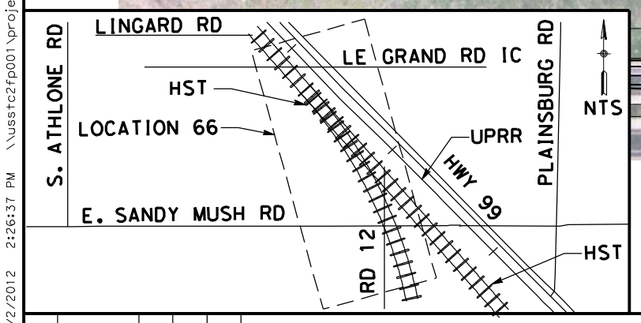
UPRR/SR99 MERCED DO - (HYBRID)
LOCAL ROAD - WEST FRONTAGE ROAD
LAYOUT
STA 181+00 TO STA 191+27.40

CONTRACT NO. HSR06-007
DRAWING NO. CR9203-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 06/30/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED - (HYBRID)
PROPOSED WEST FRONTAGE ROAD
LAYOUT
STA 191+27.40 TO STA 251+00

CONTRACT NO. HSR06-007
DRAWING NO. CR9204-B
SCALE AS SHOWN
SHEET NO. ### OF ###

MATCH LINE STA 251+00
SEE DRAWING CR9204-B

LIMIT OF IMPACT
HST R/W
EDGE OF PAVEMENT
PROPOSED BOX CULVERT
PROPOSED WEST FRONTAGE ROAD
8' 12' 12' 8'
15223.63'
N44°34'31"W
255 260 265 270 275 280
5610 5615 5620 5625 5630 5635
℄ HST TRACKS
A2-21MC (SEE DRAWING T2218-A)
UPRR R/W
UPRR
SR 99 SB

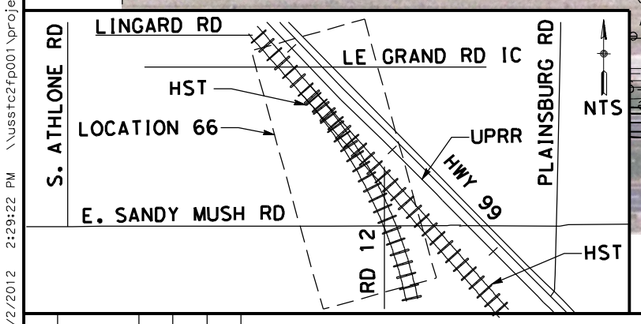
SEE BELOW LEFT
MATCH LINE STA 281+00

SEE DRAWING CT7211-B
SEE DRAWING CT7210-B
PROPOSED BOX CULVERT
REALIGNED LE GRAND ROAD INTERCHANGE
RANCH ROAD
LIMIT OF IMPACT
R=50'
R=50'
POE 102+32.89

SEE ABOVE RIGHT
MATCH LINE STA 281+00

PROPOSED BOX CULVERT
EDGE OF PAVEMENT
LIMIT OF IMPACT
HST R/W
PROPOSED WEST FRONTAGE ROAD
8' 12' 12' 8'
15223.63'
N44°34'31"W
285 290 295 300 305 310
5640 5645 5650 5655 5660 5665
℄ HST TRACKS
A2-21MC (SEE DRAWING T2219-A)
UPRR R/W
UPRR
SR 99 SB
SR 99 NB
SEE DRAWING CT7211-B

MATCH LINE STA 311+00
SEE DRAWING CR9206-B



100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
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CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

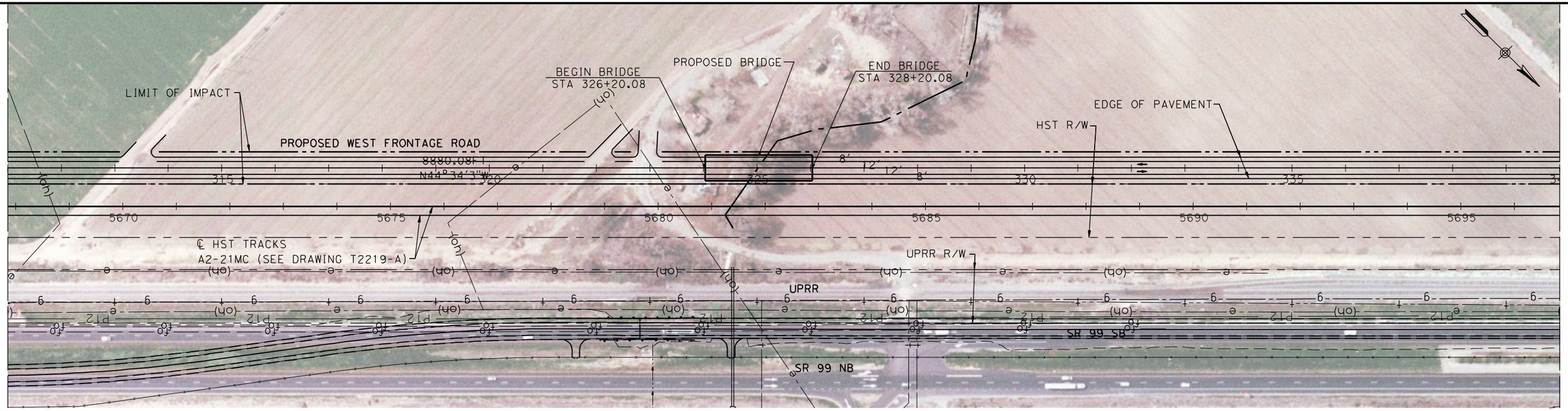
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

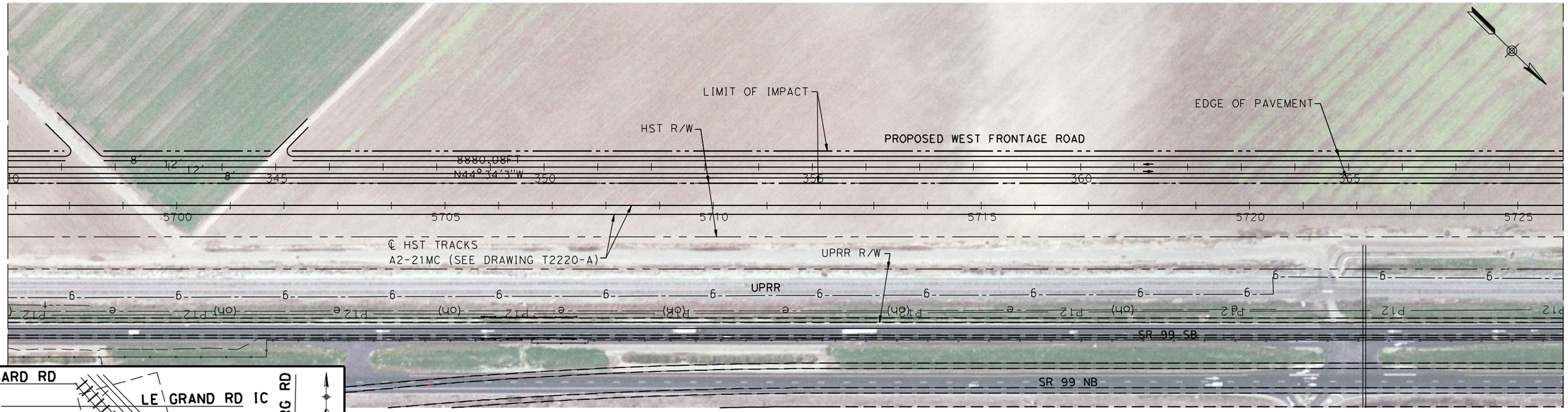
UPRR/SR99 MERCED - (HYBRID)
PROPOSED WEST FRONTAGE ROAD
LAYOUT
STA 251+00 TO STA 311+00

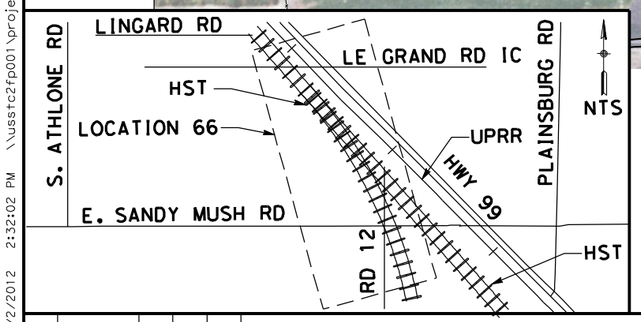
CONTRACT NO. HSR06-007
DRAWING NO. CR9205-B
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SHEET NO. ### OF ###

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100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 06/30/2011

RECORD SET
15% DESIGN SUBMITTAL

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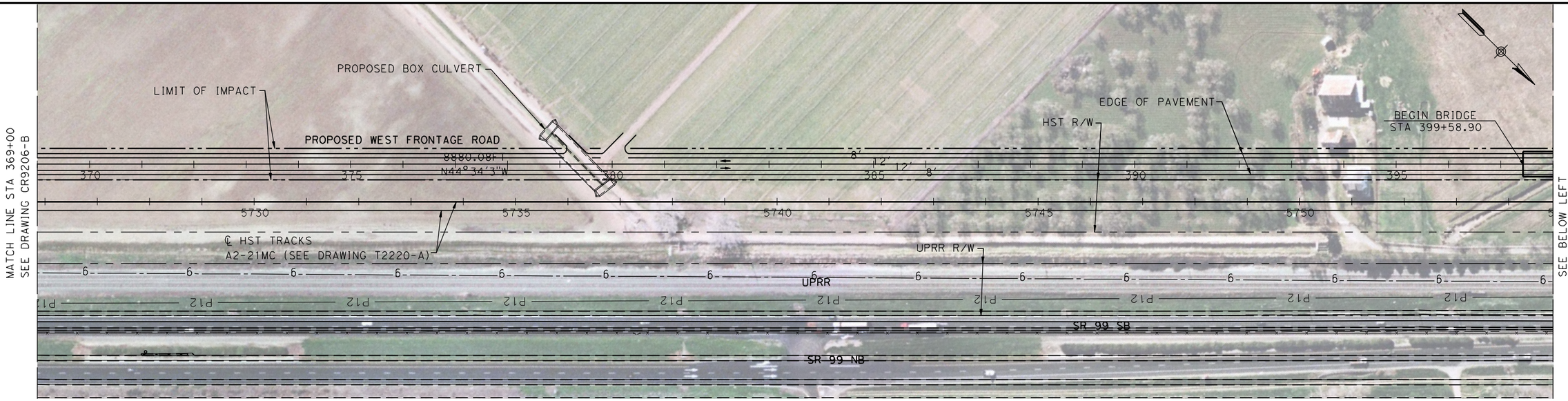
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Sacramento, CA 95811
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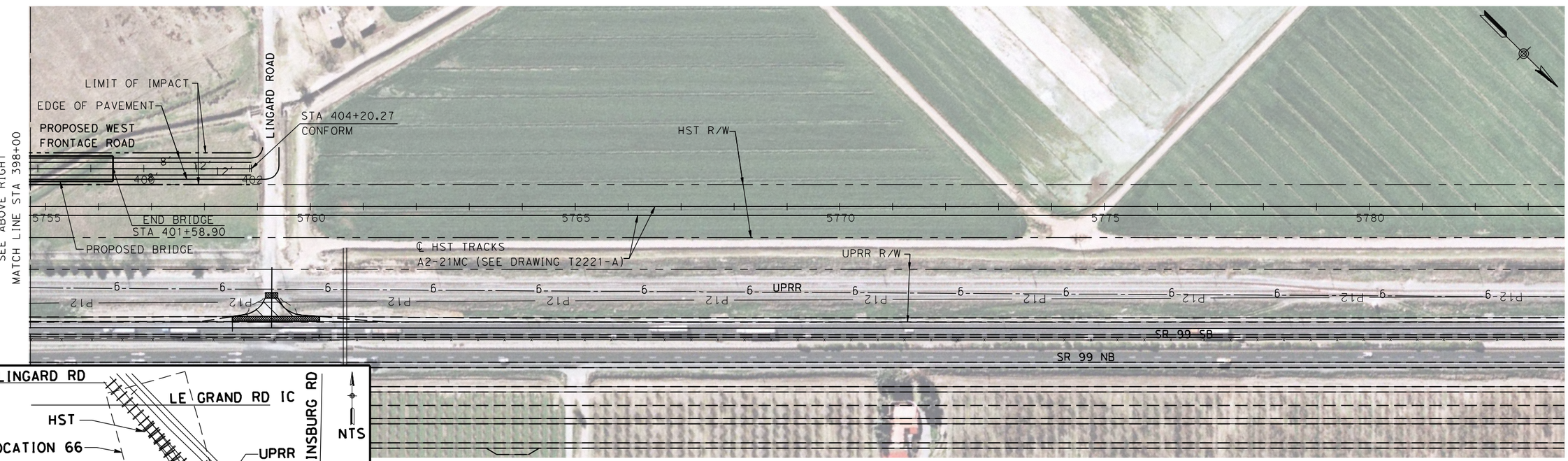
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

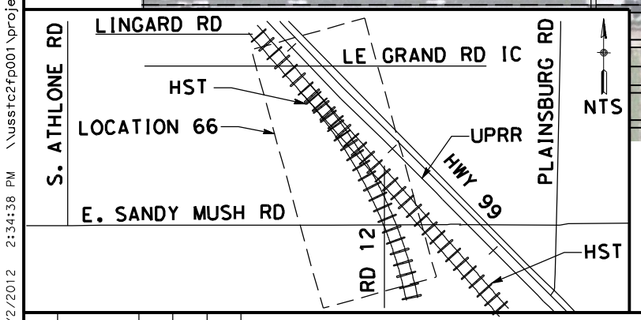
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED - (HYBRID)
PROPOSED WEST FRONTAGE ROAD
LAYOUT
STA 311+00 TO STA 369+00

CONTRACT NO. HSR06-007
DRAWING NO. CR9206-B
SCALE AS SHOWN
SHEET NO. ### OF ###







100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
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CH2MHILL

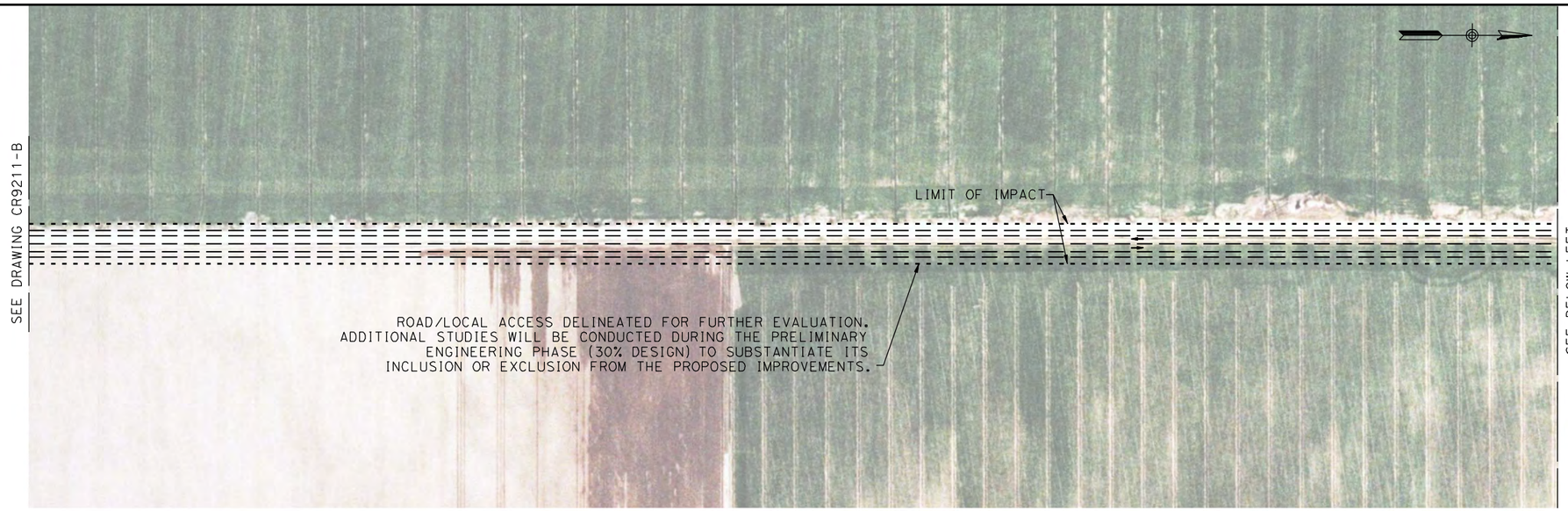
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

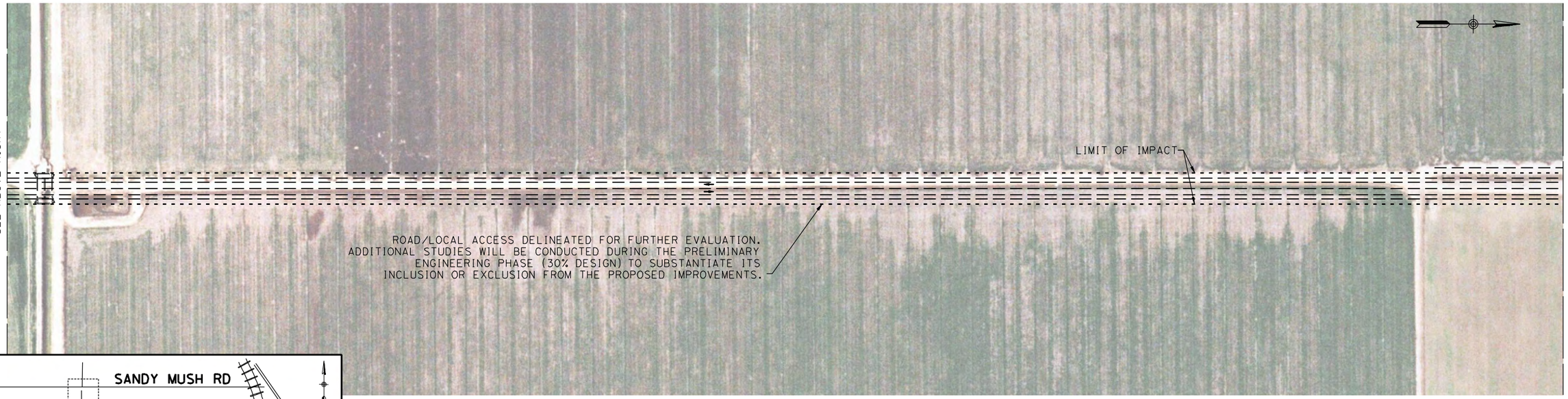
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

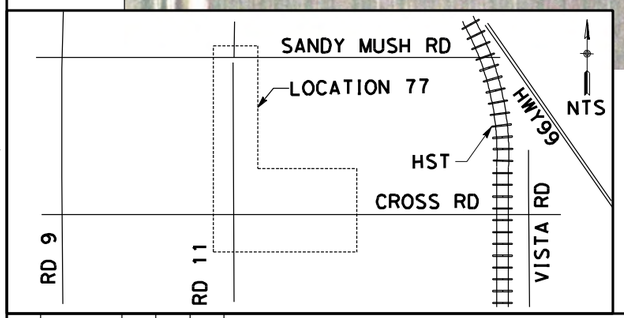
UPRR/SR99 MERCED - (HYBRID)
PROPOSED WEST FRONTAGE ROAD
LAYOUT
STA 369+00 TO STA 404+20.27

CONTRACT NO. HSR06-007
DRAWING NO. CR9207-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

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CH2MHILL

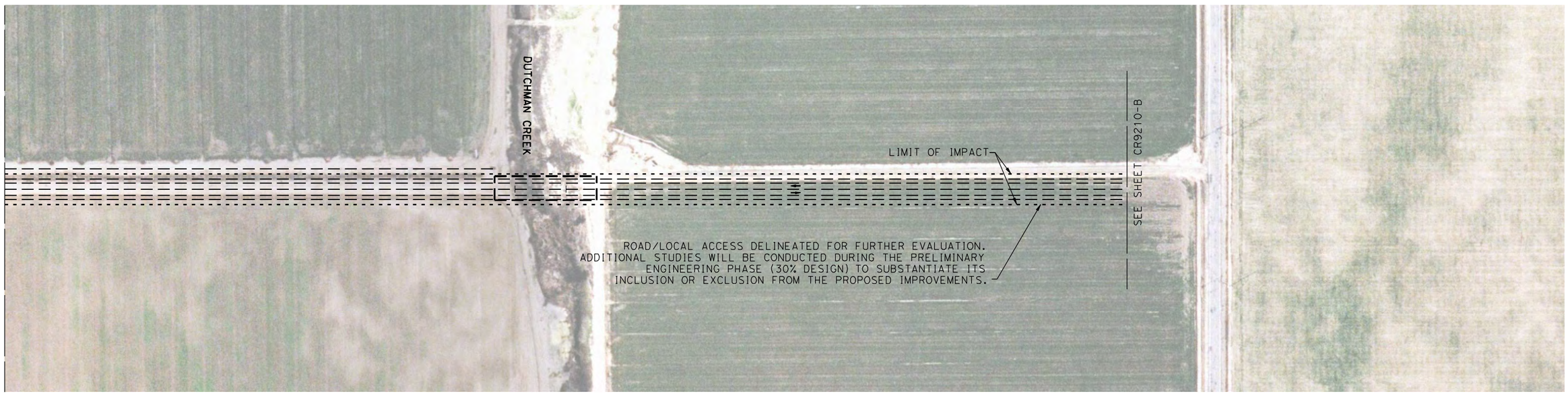
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

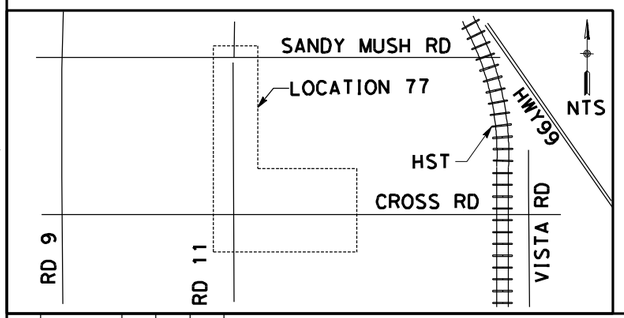
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED DO - (HYBRID)
LOCAL ROAD - ROAD 11
LAYOUT

CONTRACT NO. HSR06-007
DRAWING NO. CR9208-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ReyesCl





100 0 100 200

H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
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Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

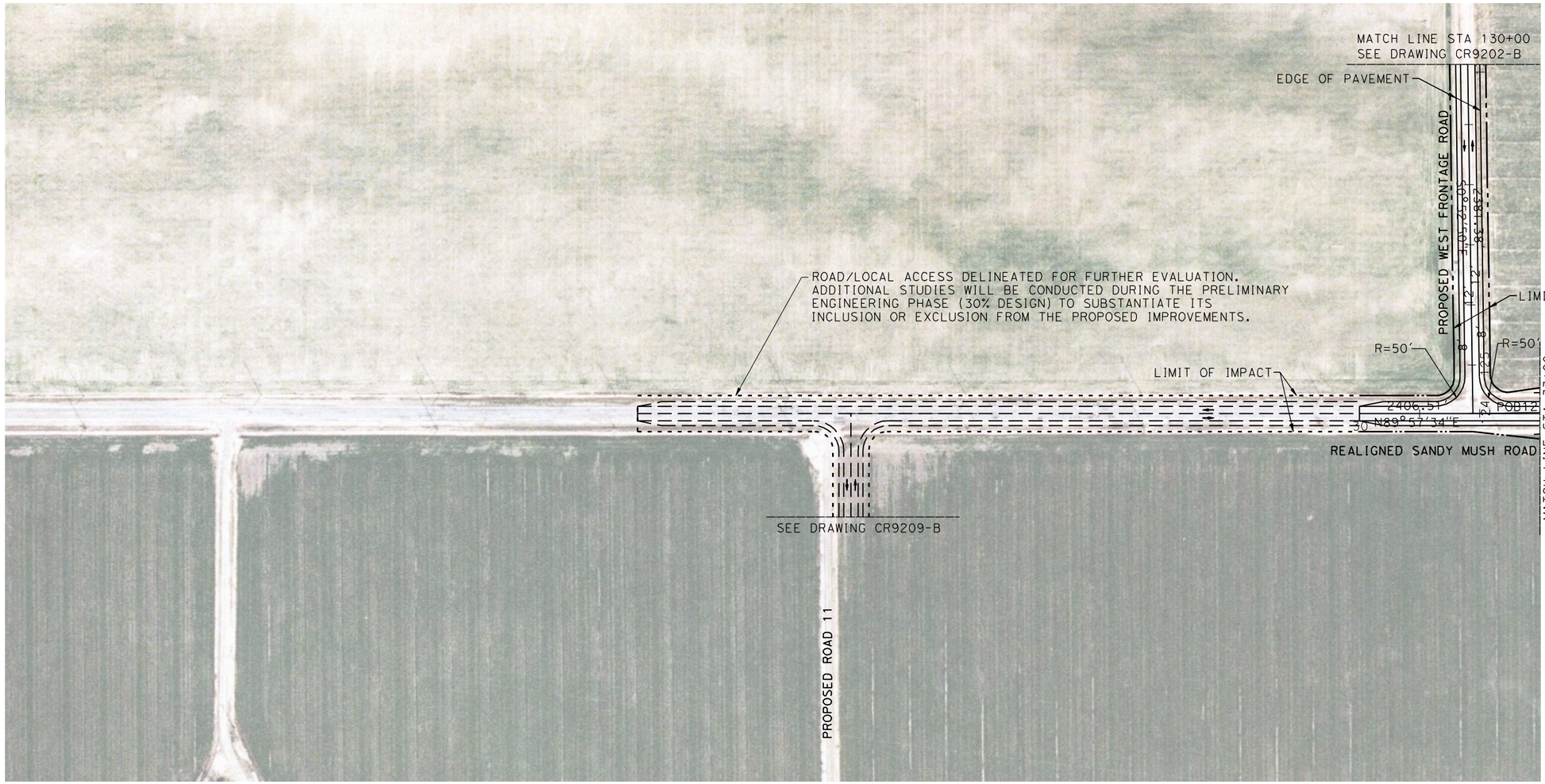
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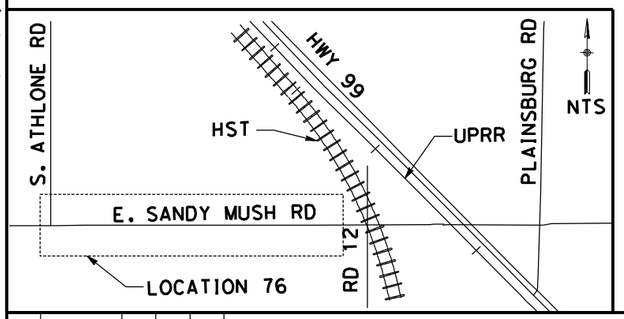
UPRR/SR99 MERCED DO - (HYBRID)
LOCAL ROAD - ROAD 11
LAYOUT

CONTRACT NO. HSR06-007
DRAWING NO. CR9209-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

RECORD SET
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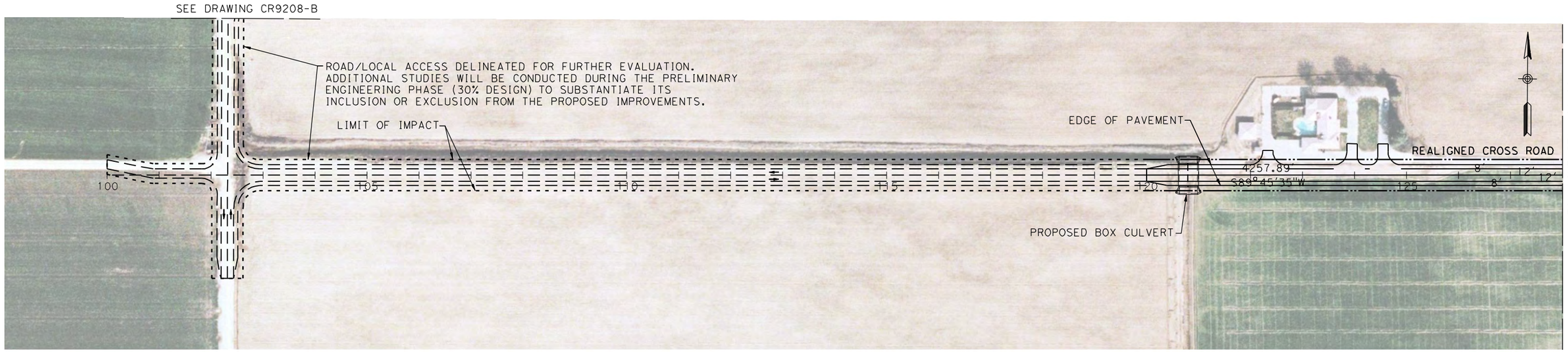
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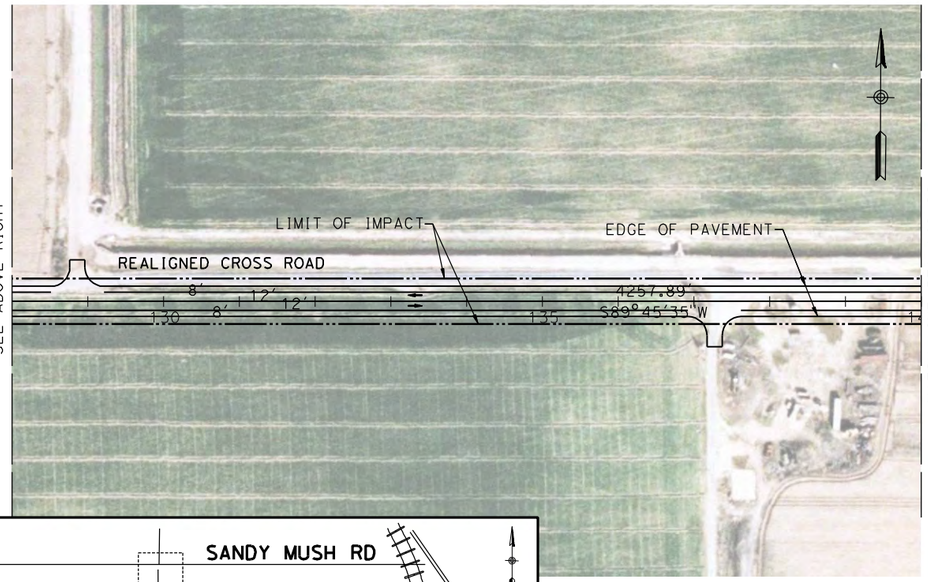
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

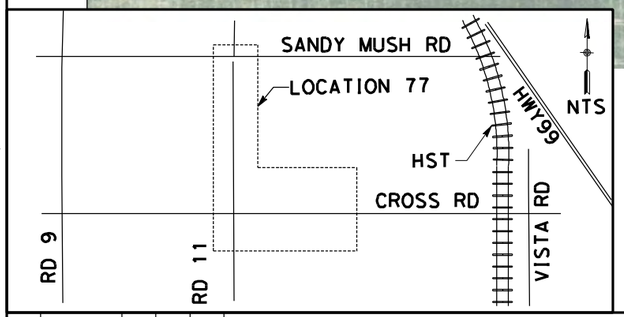
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED DO - (HYBRID)
LOCAL ROAD - SANDY MUSH ROAD
LAYOUT
STA 30+00 TO STA 33+00

CONTRACT NO. HSR06-007
DRAWING NO. CR9210-B
SCALE AS SHOWN
SHEET NO. ### OF ###







100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

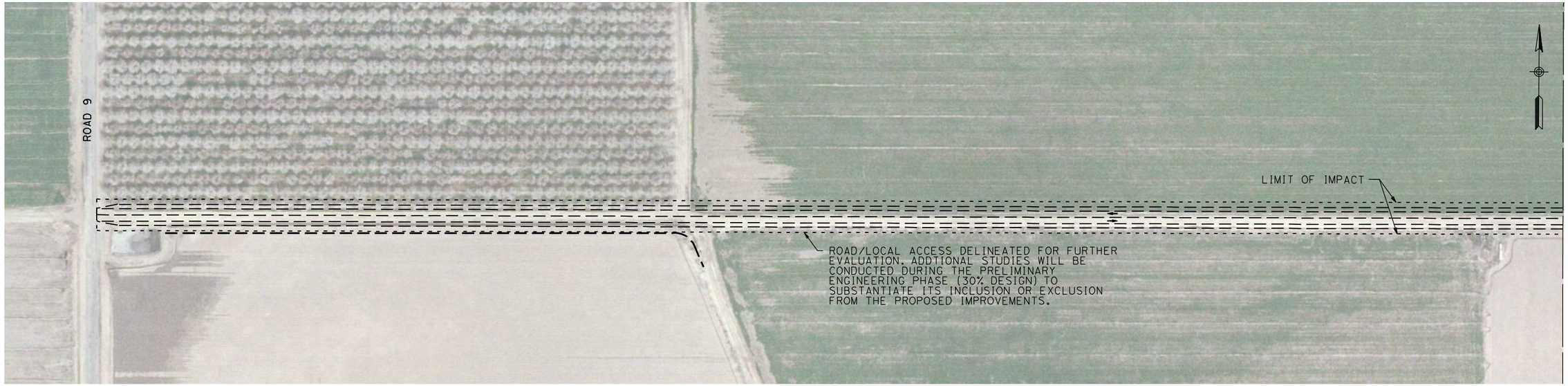
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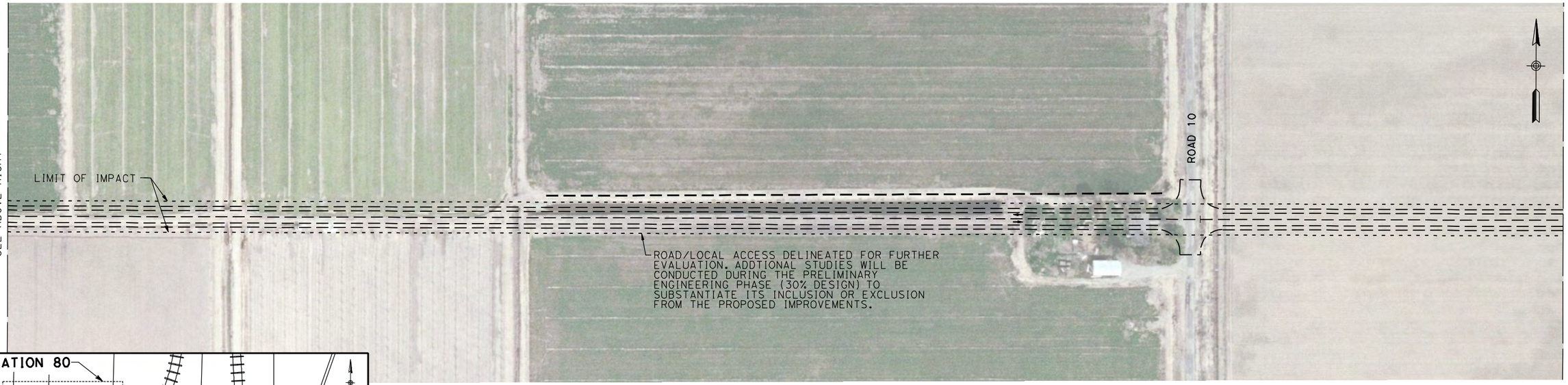
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

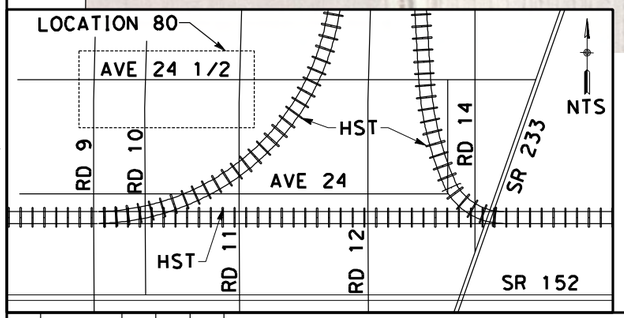
UPRR/SR99 MERCED DO - (HYBRID)
LOCAL ROAD - CROSS ROAD
LAYOUT
STA 120+00 TO STA 140+00

CONTRACT NO. HSR06-007
DRAWING NO. CR9211-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ReyesC1







100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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AECOM Technical Services, Inc.
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Sacramento, CA 95811

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE/WYE DO - (HYBRID)
LOCAL ROAD - AVENUE 24 1/2
LAYOUT

CONTRACT NO. HSR06-007
DRAWING NO. CR9212-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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ReyesC1

SEE DRAWING CT5212-B

SEE SHEET CR9212-B

LIMIT OF IMPACT

R=850'

CONNECTOR ROAD 2

EDGE OF PAVEMENT

R=50'

R=50'

R=50'

R=50'

CONFORM

SEE BELOW LEFT

ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDTIONAL STUDIES WILL BE CONDUCTED DURING THE PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPROVEMENTS.

SEE DRAWING CT5213-B

R=50'

CONFORM

R=50'

EDGE OF PAVEMENT

CONFORM

R=50'

R=50'

R=50'

CONFORM

PROPOSED AVENUE 25

EXIST AVENUE 24 1/2

PROPOSED BOX CULVERT

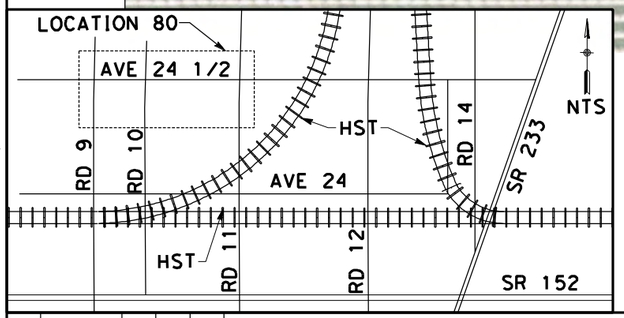
ROAD 11

SEE ABOVE RIGHT

LIMIT OF IMPACT

SEE DRAWING CT5214-B

ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDTIONAL STUDIES WILL BE CONDUCTED DURING THE PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPROVEMENTS.



100 0 100 200

H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

RECORD SET
15% DESIGN SUBMITTAL

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2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

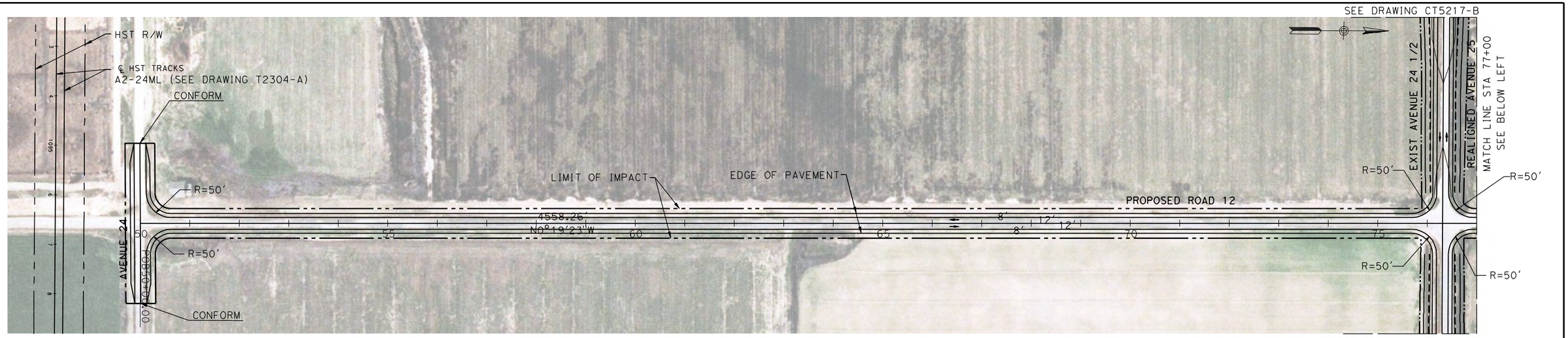
UPRR/SR99 WYE DO - (HYBRID)
LOCAL ROAD - AVENUE 24 1/2
LAYOUT

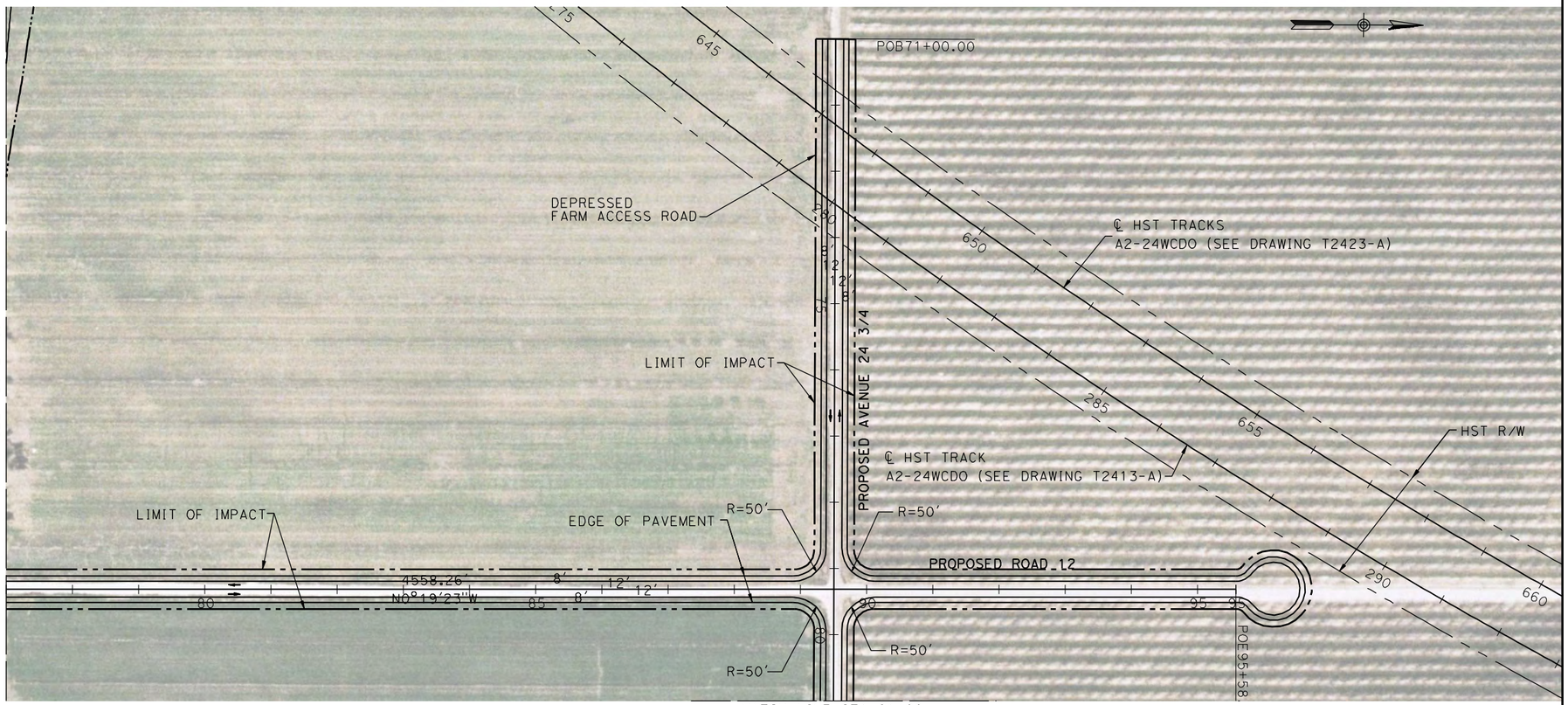
CONTRACT NO. HSR06-007
DRAWING NO. CR9213-B
SCALE AS SHOWN
SHEET NO. ### OF ###

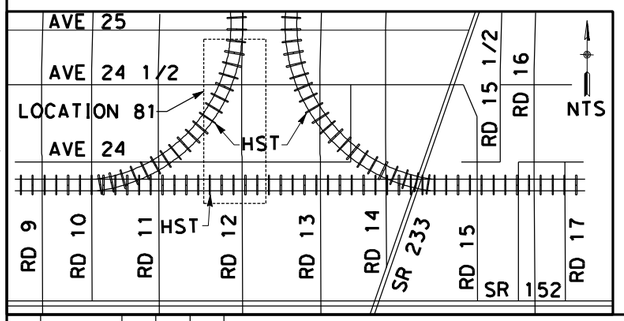
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ReyesC1

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ReyesC1







REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

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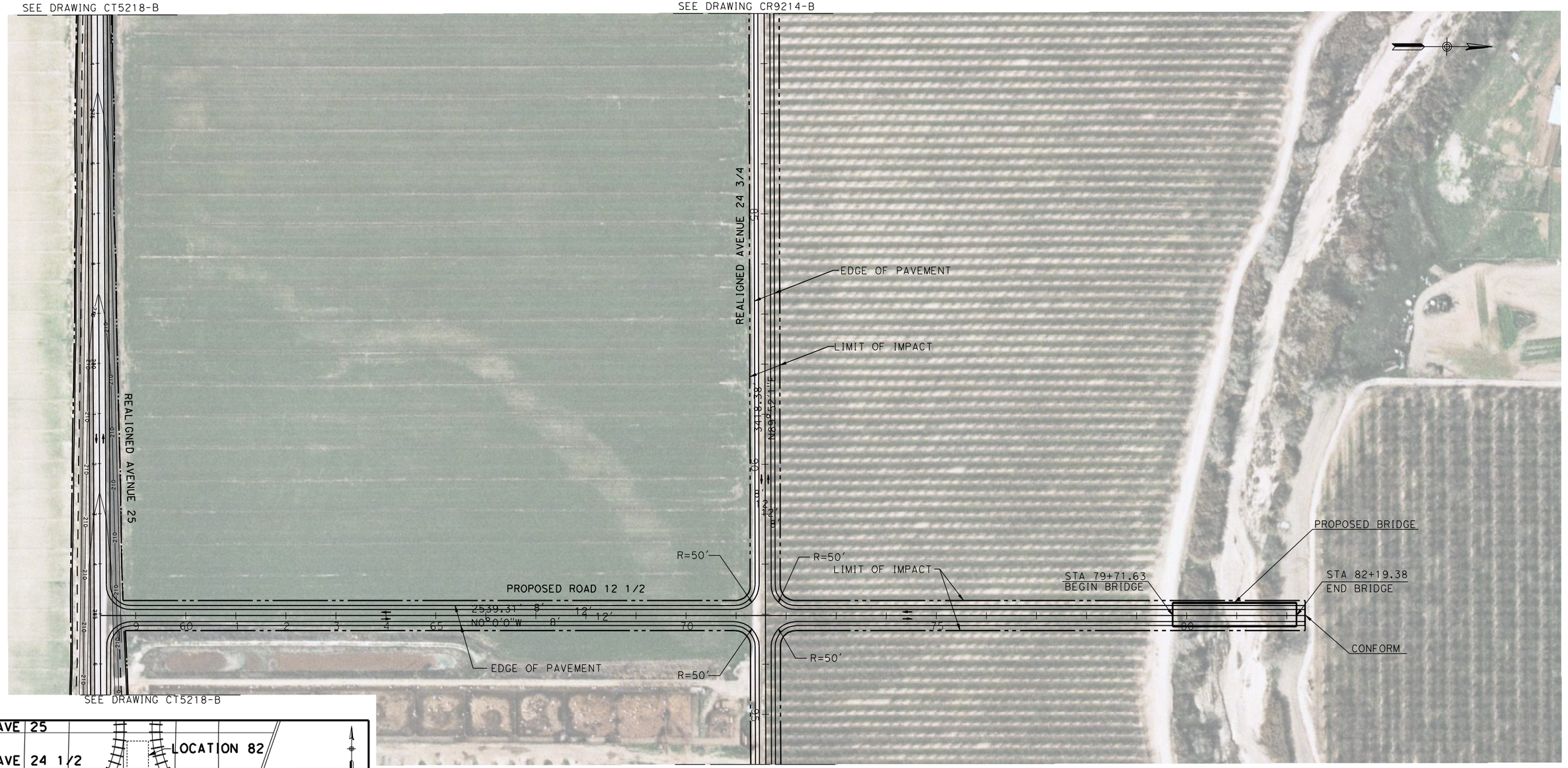
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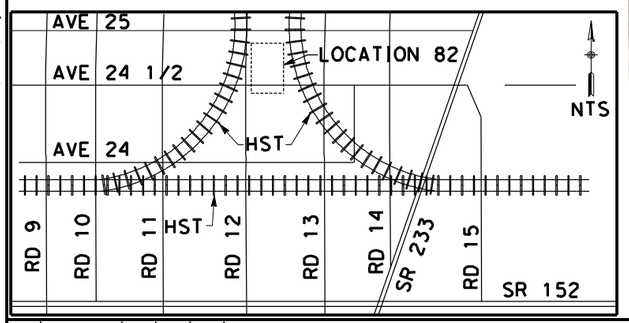
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MAINLINE/WYE DO - (HYBRID)
LOCAL ROAD - ROAD 12
LAYOUT
STA 50+00 TO 95+58.26 & STA 71+00 TO 81+00

CONTRACT NO. HSR06-007
DRAWING NO. CR9214-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

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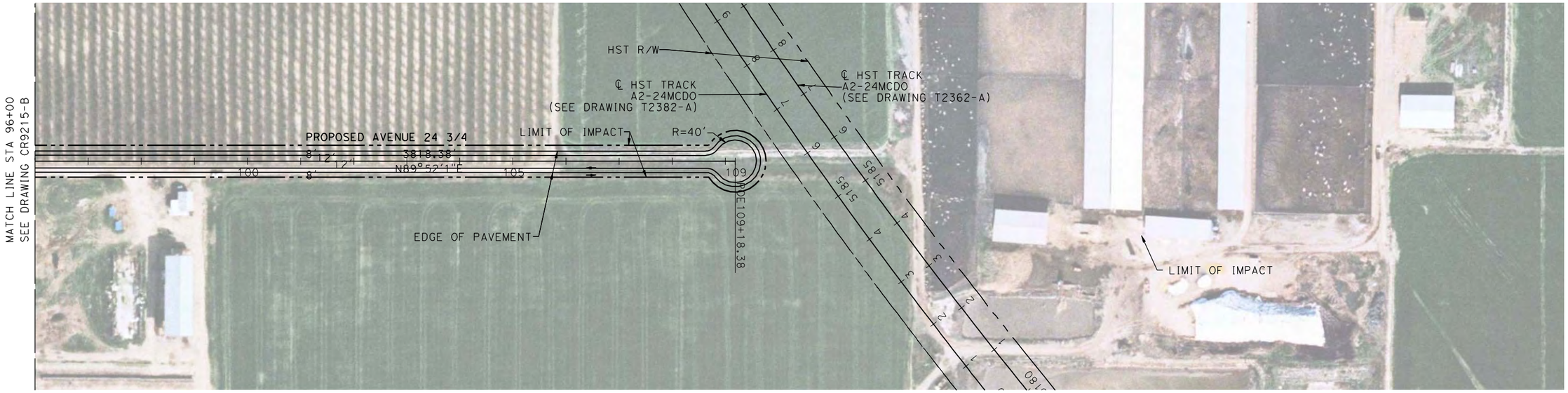
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Sacramento, CA 95811
CH2MHILL

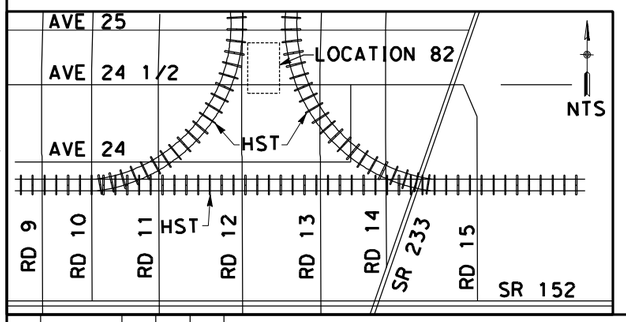
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED DO - (HYBRID)
LOCAL ROAD - ROAD 12 1/2 & AVENUE 24 3/4
LAYOUT
STA 81+00 TO STA 96+00

CONTRACT NO. HSR06-007
DRAWING NO. CR9215-B
SCALE AS SHOWN
SHEET NO. ### OF ###





100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/28/11	RG			

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 06/30/2011

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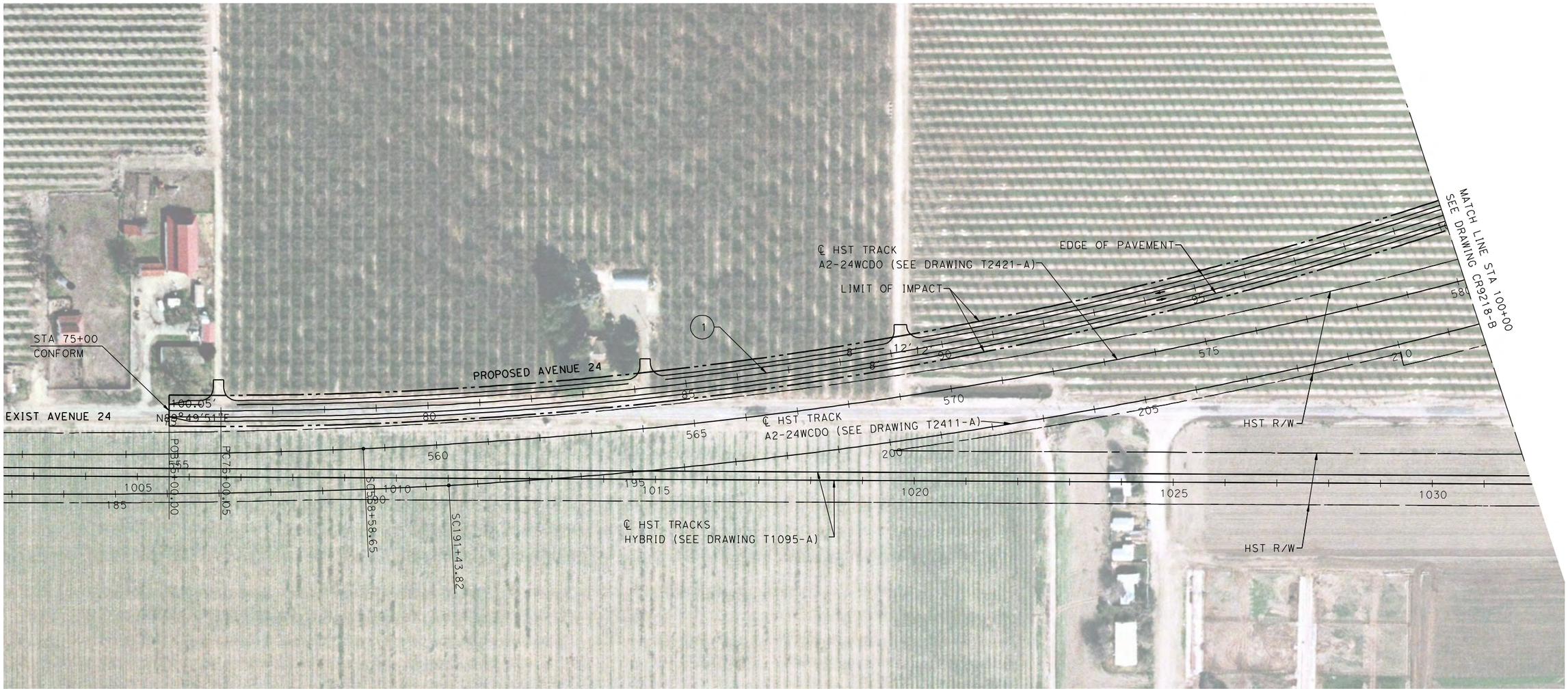
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

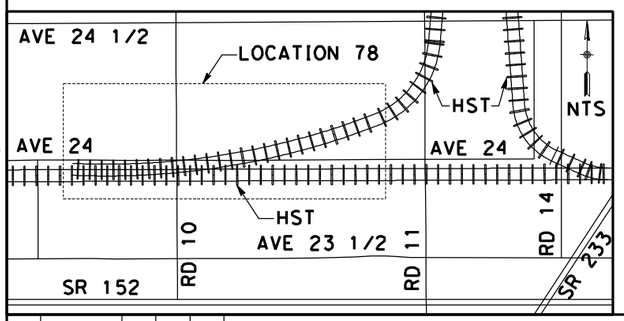
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED/WYE DO - (HYBRID)
LOCAL ROAD - AVENUE 24 3/4
LAYOUT
STA 96+00 TO STA 109+18.38

CONTRACT NO. HSR06-007
DRAWING NO. CR9216-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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CURVE DATA

No.	R	Δ	T	L
(1)	7500.00	71°18'55"	1233.87	2445.84

100 0 100 200
H: 1"=100'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY D. AYELE
DRAWN BY C. DELOS REYES
CHECKED BY A. SILVER
IN CHARGE A. BOONE
DATE 04/29/2011

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAINLINE/WYE DO - (HYBRID)
LOCAL ROAD - AVENUE 24
LAYOUT
STA 75+00 TO STA 100+00

CONTRACT NO. HSR06-007
DRAWING NO. CR9217-B
SCALE AS SHOWN
SHEET NO. ### OF ###

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4/27/2011 7:31:58 PM
ReyesC1

STA 116+86.44
CONFORM

POE116+86.44

N62°25'13"W
230.16'

PT114+36.35

EDGE OF PAVEMENT

2

ROAD 11

℄ HST TRACK
A2-24WCDO (SEE DRAWING T2422-A)

HST R/W

595

LMIIT OF IMPACT

12'

8'

8'

225

590

1

PROPOSED AVENUE 24

528.13'
N71°18'45"E

PC 103+74.62

585

220

MATCH LINE STA 100+00
SEE DRAWING CR9217-B

PT 100+45.89

215

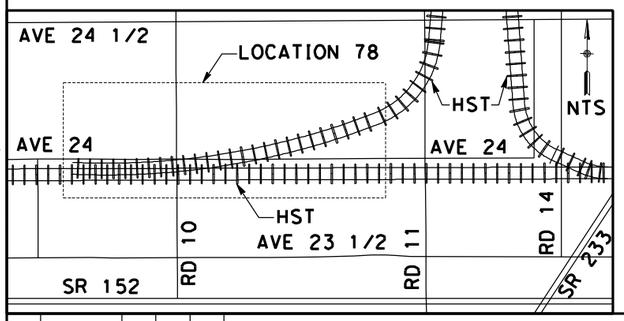
℄ HST TRACK
A2-24WCDO (SEE DRAWING T2412-A)

ASH SLOUGH

CURVE DATA

No.	R	Δ	T	L
1	7500.00	71°18'55"	1233.87	2445.84
2	850.00	18°25'56"	612.68	1061.73

100 0 100 200
H: 1"=100'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

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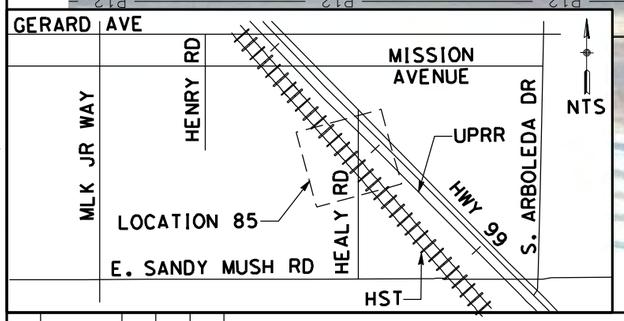
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAINLINE/WYE DO - (HYBRID)
LOCAL ROAD - AVENUE 24
LAYOUT
STA 100+00 TO STA 116+86.44

CONTRACT NO. HSR06-007
DRAWING NO. CR9218-B
SCALE AS SHOWN
SHEET NO. ### OF ###





REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
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Sacramento, CA 95811
CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

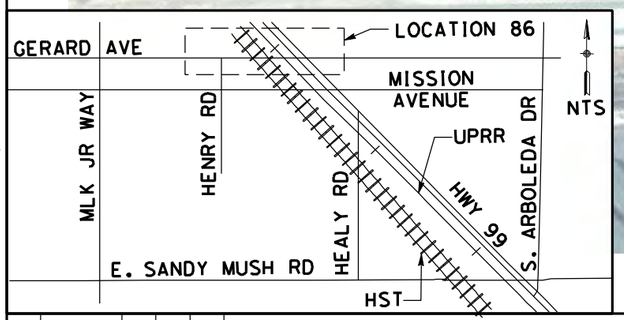
UPRR/SR99 MERCED - (HYBRID)
HEALY ROAD
LAYOUT

CONTRACT NO.: HSR06-007
DRAWING NO.: CR9219-B
SCALE: AS SHOWN
SHEET NO.: ### OF ###

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ReyesC1

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4/27/2011 7:32:20 PM
ReyesC1





REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: D. AYELE
DRAWN BY: C. DELOS REYES
CHECKED BY: A. SILVER
IN CHARGE: A. BOONE
DATE: 04/29/2011

RECORD SET
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

UPRR/SR99 MERCED - (HYBRID)
GERARD AVENUE/CALTRANS FRONTAGE ROAD
LAYOUT

CONTRACT NO. HSR06-007
DRAWING NO. CR9220-B
SCALE AS SHOWN
SHEET NO. ### OF ###